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USATSARCOM TECHNICAL REPORT 81-1

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HISTORICAL INFLATION PROGRAM.

(A COMPUTER PROGRAM GENERATING
HISTORICAL INFLATION INDICES FOR
ARMY AIRCRAFT)

Revision.
(9) Final kept.

10 WARREN H. GILLE, JR.
FINAL REPORT
11 JANUARY 1981

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U.S. ARMY TROOP SUPPORT
AND AVIATION MATERIEL
READINESS COMMAND

COMPTROLLER
COST ANALYSIS DIVISION

4300 GOODFELLOW BLVD.
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report extends and revises Technical Report 80-1 which presents and de- scribes the Historical Inflation Program, a computer program generating historical inflation indices for Army aircraft. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and is capable of handling data for all fiscal year formats. Output is express- ed as monthly, quarterly, Fiscal Year, and Calendar Year inflation indices (in Calendar Year 1967 base) and inflation factors (in any Fiscal Year base). This report contains updated tables of inflation factors, expressed in a FY 80		

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20. ABSTRACT.

base. These indices and factors provide a means of adjusting historical cost data for the procurement of Army Aircraft to constant year dollars. Additional features include: computations for the Derivation of Revised Weighting Factors, detailed indices enabling the adjustment of historical Labor and Material cost separately, a discussion of aggregate weighting factors for Labor and Materials, (including trends from sensitivity analysis with more background materials), and additional documentation aimed at making the report useful to a large cross section of the DOD/Rotary Wing Aircraft Community.

DISCLAIMER STATEMENT

The views, opinions, and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy, or decision unless so designated by other documentation.

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ACKNOWLEDGEMENTS

The author extends his appreciation to the Kansas City Regional Office of the Bureau of Labor Statistics, U.S. Department of Labor, for special assistance with wage and price data.

Ms. Marva Campbell provided excellent clerical support in the revision of this paper.

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I. APPLICABILITY. The inflation indices and factors published in this report are applicable to the adjustment of historical costs for the procurement of Army aircraft. These costs are currently funded by the Aircraft Procurement, Army and Other Procurement Army appropriations.

II. AN OVERVIEW OF THE HISTORICAL INFLATION PROGRAM.

A. History.

The Historical Inflation Program for Army aircraft procurement was developed using a sequence of documents, the first being Aerospace Price Indices, by H.G. Campbell (RAND # R-568-PR, 12/70). Essentially, the RAND document established a basis for the construction of general indices, identified items of special interest and concern, and indicated that no substitute exists for thorough analysis of the specific items being characterized by an historical index. Several indices, designed specifically for rotary wing aircraft, have been developed for the adjustment of procurement cost since that time by the United States Army Aviation Systems Command, and this function has been carried over to the Components and Operational Studies Branch, Cost Analysis Division, Office of the Comptroller, USATSARCOM.

The current indices are based on research done in the period 1972 to date. In July 1973, the Office of the Comptroller, Cost Analysis Division, made a study of materials used in the Army helicopter systems then, or most recently, in production. Cost Information Reports were assembled, and contractors were asked to supply lists of materials for both airframe and engine, on the basis of contribution to weight. Contractor technical and engineering personnel provided assistance with data interpretation and definitions for items whose composition was unclear from engineering documents and Detailed Weight Statements.

The following aircraft were selected:

UH-1H	OH-6A	AH-1G
CH-47C	OH-58A	CH-54B

This selection of aircraft is deemed typical for several reasons. First, the six helicopter systems listed above make up the majority of the U.S. Army Air Order of Battle listed in Section III. Second, a number of these aircraft had been produced on a long term, continuing basis in previous versions. And, third, and most important, they are among the systems most likely to be used in developing Cost Estimating Relationships for new systems by use of parametric techniques.

The September 1973 Historical Inflation Cost Research Report, cited in the references, was the first report to make full use of this information. It was updated by the August 1974 Cost Research Report, and then by a series of expanded analyses under current title, Historical Inflation Program, since that time. A list of the assumptions and changes in methodology over the period referenced are included in the body of the Technical Section.

B. Construction of Indices - Methodology.

The indices are developed by a stepwise, building process, which computes the contributions to cost on a weighted value-added basis.

1. First, the contribution to cost of small parts and other purchased equipment is calculated.

2. Next, the cost contribution of purchased parts is combined with that of raw materials to get the cost of purchased materials.

3. Purchased material cost is then combined with contractor labor cost to compute the index for products such as engine or airframe.

4. The indices for engine, airframe, and avionics are combined to get an overall index for aggregate aircraft.

C. Indexing Technique.

The procedure used is "Cost-Weighting". The information obtained from 1973 research on "helicopter materials" established percentages based on weight. Because the indices used to track material costs are based on monetary considerations (e.g., Producer Price Index; Wages, by Standard Industrial Code), percentages by weight had to be transformed into percentage contributions to cost, if PPI and SIC inflation factors were to be applied directly. Based on the premise of profit maximization, contractors should tend to minimize the use of expensive materials subject to maintaining acceptable performance standards; essentially, materials with a high cost per unit weight ratio would be used sparingly. Adjusting a percentage based on weight using a monetary index would not only result in an improper index initially, but also one with diminishing reliability. The latter bias is avoided by calculating the contribution to cost, instead of merely the contribution to weight.

D. Weighting Factors. Although the model is developed by an iterative, stepwise process, the revised weighting factors in the table (at the end of Appendix B) implicitly include all calculations. The index, as stated, is merely the direct sum of

the products of the weights and their corresponding material index values. The development of weighting factors is illustrated in the Technical Section.

E. Data. The data used appear in two different forms. Yearly data are presented by Calendar Year 1947 to date, and monthly data for 1967 to date. The yearly data, pre 1958, are condensed into three columns; the data for 1958 and later are presented in an 18 column format - 14 columns for material inputs, and 4 for labor. Beginning with report 76-1B, all columns of the data set have been identified by PPI and SIC code, as well as a verbal description in the column heading. PLEASE NOTE: The data, their characterization, and any redefinition, by the Bureau of Labor Statistics over the years, are tracked in line diagram C-2.

F. Validity and Firmness of Data.

The Producer Price Index and Wage Data was supplied by the Kansas City Regional Office of the Bureau of Labor Statistics, U.S. Department of Labor. The data comes in three types of published form: (1) a cumulative history covering all relevant past years on a monthly basis. (2) A yearly edition (such as Wage and Price Index Annual Supplement) which lists the previous 12 months, and (3), monthly publications which list the most current month and several other months for comparison.

For data to be "firm" it must be at least 18 months old, in most cases, because it is benchmarked and adjusted after the fact. For example, small samples are taken throughout the year; however, during one month (the benchmark month), a much more comprehensive

sample is taken. Due to its significantly larger sample size, the benchmark month's sample is felt to be more representative than those of other individual months, and if the benchmark diverges from the pattern, the other months are adjusted proportionately to conform to its base as benchmark.

The data in the cumulative history "type" publication is felt to be firm or "final". Basically, such publications provide a chronological listing of all firm data available for the past history of those indices. However, the data in such publications is usually 18 to 24 months behind the current period. The data for each month listed in the Annual Supplements is not necessarily firm because benchmarks occur during the Calendar Year, and at different times for different series. Adjustments may not have been made before the Annual Supplements are published. The monthly publications, which contain information on the most current periods, are even more tentative. In general, the Producer Price Index Data are firm before Wage Indices for the corresponding month, probably due to the fact that it is easier to define and measure price changes for commodities than for human skills.

G. Particular Problems.

1. The Wage Data for the period CY 1971-CY 1973 changed, in many cases, during FY 75-FY 76. The wage-price freeze disallowed certain salary and wage increases, but a number of these were awarded on a retroactive basis based on legal decisions rendered several years after the fact. Because such payments involved costs directly attributable to labor services during the

period, these payments had to be incorporated in the indices to provide an accurate measure of labor earnings. *

2. With the September 1978 issue of Employment and Earnings, the reporting categories for a number of types of production labor were changed. In effect, the 1967 Standard Industrial Classification Code has been supplanted by the 1972 SIC Code.

The Changes are as follows:

<u>SIC Code & Title</u>	<u>-to-</u>	<u>SIC Code & Title</u>
3674,9 Electronic Devices & Components		367X Electronic Components and Accessories
3722 Aircraft Engines and Engine Parts		3724 Aircraft Engines and Engine Parts
3723,9 Aircraft Parts and Equipment		3728 Aircraft Equipment

The reclassification had little or no impact on this study due to the essential similarities, by definition, of the old and new labor categories.

3. Potential discrepancies in the data set were eliminated by comparing data elements with the most recent data in the BLS computer for the 14 material and 4 labor categories used in the report. All data were verified to be the latest and most accurate available, on 15 December 1980, by the Kansas City Regional Office, BLS.

*See BLS Bulletin No. 1312-10, Employment and Earnings 1909-75 for a detailed explanation (esp. p. 769).

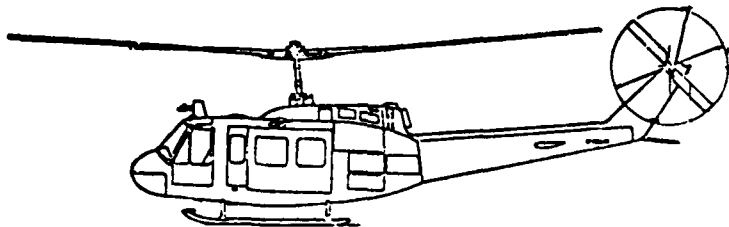
H. Change in Content from the Previous Reports.

A printout of the computer program used for the Historical Inflation Program is not included in this report, for two reasons. First, it was found that a list of structural equations would better serve the purpose of elucidating the model. At the same time, with the reduced form equations and clearly identifiable data sets, any index figure can be checked by direct calculation (See Appendix B, page B-4). Second, direct duplication of the deck from the original is more accurate and efficient than keypunching copies from the program source listings, should such an external need ever develop.

A sensitivity analysis, which displays the effects resulting from a change in the relative weights of labor and material in the Historical Index, has been included in this revision. The percentage contribution to cost attributable to labor and materials varies among aircraft systems, and the values used in this report--.378 (materials) and .622 (labor)--are an average for the six systems referenced. The sensitivity analysis yields a measure of the extent to which the index for a single aircraft system would vary, if that system is built with an aggregate labor/material mix which differs from the six system average. The accuracy of the re-weighted index, however, also requires that the other assumptions be well satisfied, i.e., the 14 material and 4 labor indices are typical of the system being reviewed. Because such weighting is a concern in developing estimates in inflated dollars, the effect of such "weighting changes" should be of significant interest to many readers.

DATA CONCERNING:

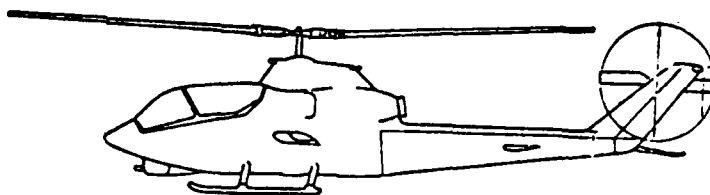
The Material Content of U.S. Army Helicopter Systems



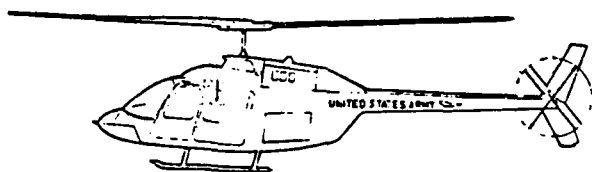
UH-1H "HUEY"



OH-6A "CAYUSE"

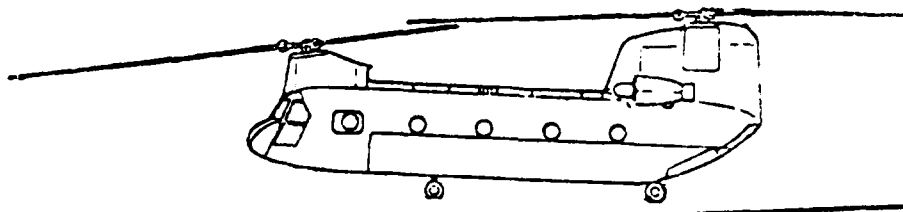


AH-1G "COBRA"

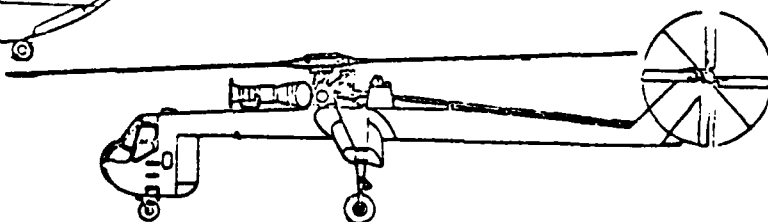


OH-58A "KIOWA"

U S A R M Y A I R C R A F T



CH-47C "CHINOOK"



CH-54B "SKYCRANE"



UH-60A (Blackhawk)

Air Order of Battle

United States Army - Quantities and Types of Aircraft

ROTARY WING AIRCRAFT

<u>System Designation</u>	<u>Popular Name</u>	<u>Approx Empty Wt.</u>	<u>No. of Aircraft</u>	<u>Percent of Fleet</u>
AH-1	"COBRA"	5,800 lbs.	800	10.1%
UH-1	"HUEY"	5,100 lbs.	4,200	52.8%
OH-6	"CAYUSE"	1,200 lbs.	450	5.7%
OH-58	"KIOWA"	1,750 lbs.	1,900	23.9%
CH-47	"CHINOOK"	19,500 lbs.	430	5.4%
CH-54	"SKYCRANE"	19,800 lbs.	75	1.0%
UH-60A	"BLACK HAWK"	10,500 lbs.	91	1.1%
AH-64A	"ADV. ATTACK"	10,400 lbs.	0	0%
			<hr/> 7,946	<hr/> 100.0%

Sources: FM 101-20 (UNCLASSIFIED).
World Combat Aircraft Directory
Doubleday and Co.,
 BLACK HAWK PM Office

USAP "VSCOM COST ANALYSIS DATA 1973

AVSAV-CCE

31 July 1973

MEMORANDUM THRU: Mr. Gerald Dockins, Acting Chief, Estimates and Studies Branch

FOR: Mr. Edward P. Laughlin, Chief, Cost Analysis Division *SL*

SUBJECT: Material Composition Analysis of U.S. Army Helicopters, July 1973

1. On 6 June 1973, this office received a request from Mr. W.J. Tropp, AMC Comptroller Office, Cost Analysis Division, for the material composition of a UH-1H helicopter. On 16 June 1973, Chief, AVSCOM Comptroller Office, Cost Analysis Division requested a similar analysis be performed on the following Army helicopters:

- a. CH-47C.
- b. OH-6A.
- c. OH-58A.
- d. AH-1G.
- e. CH-54B.

2. A search of the technical data files and aircraft drawings failed to produce the desired data. The analysis was completed with the assistance of AVSCOM Systems Engineering Division, Directorate of R&E and pertinent U.S. Army Plant Activities. Contractors were also contacted during the data search, and others. The data obtained are a combination of expert opinion, engineering estimates and contractor data obtained under previous contracts.

3. The following Cost Analysis personnel were assigned to this project:

Aircraft System	Assigned To
UH-1H	Gerald Dockins
CH-47C	James Cadell
OH-6A	John Thibault
OH-58A	Gerald Dockins/James Cadell
AH-1G	Gerald Dockins/James Cadell
CH-54B	James Cadell

AVSAV-CCE 31 July 1973
SUBJECT: Material Composition Analysis of U.S. Army Helicopters, July 1973

4. Copies of the Material Composition Analysis have been placed in the following files:

- a. A new file folder titled "Material Composition Analysis".
- b. A complete copy of the findings placed in the file folder titled "Inflation".
- c. A separate file of the findings relating to turbine engines has been created.

5. Summary Tables and Material Composition Analyses are inclosed.

James N. Cadell
JAMES N. CADELL
Math-Stat

1 Incl
as

Material Composition Analysis
of Army Helicopters
(Dated July 1973)
Material (Pounds)

U.S. Army Helicopters

Aircraft Model	Empty Weight	Aluminum	Steel	Magnesium	Titanium	Copper	Brass	Bronze	Lead	Tungsten	Nickel Alloy	Nonmetallic
AR-1C	5,394	1,888	1,780	216	108	593	0	0	216	0	0	593
UH-1H	4,973	1,579	1,718	280	70	400	100	0	100	0	0	726
OH-6A	1,163	666	218	46	1	30	23	3	0	1	25	150
OH-58A	1,586	536	543	55	15	101	0	0	43	0	0	293
CH-47C	20,483	8,312	7,989	1,304	63	676	4	16	0	45	0	2074
CH-54B	19,765	8,931	3,860	72	970	516	20	23	1	0	788	4584

U.S. Army Turbine Engines

Engine Model	Dry Weight	Aluminum	Steel	Magnesium	Titanium	Copper	Nickel Alloy	Nonmetallic	Stainless Steel	Steel Alloy
T53-L-13	527	79	316	80	26	3	0	23	0	0
T63-A-5A	138	1	108	26	0	0	0	3	0	0
T63-A-700	138	1	108	26	0	0	0	3	0	0
T55-L-7C	590	0	510	50	20	10	0	0	0	0
T73-P-700	981	1	0	0	0	0	290	0	596	94

U.S. Army Helicopter Airframe, Only.

Aircraft Model	Airframe Weight	Aluminum	Steel	Magnesium	Titanium	Copper	Brass	Bronze	Lead	Tungsten	Nickel Alloy	Nonmetallic
AR-1C	4,867	1,809	1,464	136	82	590	0	0	216	0	0	570
UH-1H	4,446	1,500	1,402	200	44	400	100	0	100	0	0	700
OH-6A	1,025	666	109	20	1	30	23	3	0	1	25	147
OH-58A	1,448	536	434	29	15	101	0	0	43	0	0	290
CH-47C	19,303	8,312	6,969	1,204	23	656	4	16	0	45	0	2,072
CH-54B	17,803	8,928	2,480	72	970	516	20	23	1	0	209	4,584

TABLE 3 **

SUMMARY OF AIRFRAME AND ENGINE CIR DATA*

	(1) Airframe	(2) Engine
Labor	62.08%	40.85%
Material	<u>37.92%</u>	<u>59.15%</u>
Total Cost	100.00%	100.00%
Raw Material	41.88%	70.58%
Purchased Equipment	<u>58.12%</u>	<u>29.42%</u>
	100.00%	100.00%

(1) Airframe factors were obtained from a sample of 15 CIR reports representing the AH-1, CH-47, CH-54, OH-6, and OH-58 aircraft systems.

(2) Engine factors were obtained from a sample of 14 CIR reports representing 11 different turbine engine configurations procured from Lycoming, Allison, General Electric, and Pratt & Whitney.

*As adjusted by Labor and Material price movements.

** From HISTORICAL INFLATION INDICES FOR ARMY AIRCRAFT
U.S. Army Aviation Systems Command, St. Louis, 1974,
p. 11.

TECHNICAL SECTION

IV. ANALYSIS: (TECHNICAL SECTION).

A. Chronology. Previous efforts related to the development of inflation indices include Aerospace Price Indexes by H.G. Campbell, RAND Corporation, December 1970 (Reference 1) and two Cost Research Reports: Historical Inflation Indices for Army Aircraft, Cost Analysis Division, Office of the Comptroller, US Army Aviation Systems Command, September 1973 (Reference 4), and Historical Inflation Indices for Army Aircraft, Cost Analysis Division, Office of the Comptroller, US Army Aviation Systems Command, August 1974 (Reference 5).

1. Characteristics of the RAND Report.

a. Specific Producer Prices and Price Indexes (Reference 8) and Employment and Earnings (Reference 2) data have been selected as proxy series for similar commodity and labor categories experienced in the procurement of Army aircraft. Aircraft inflation indices are constructed from a weighted average of these proxy series. The weighting factors for this average are derived from estimates of the relative contribution to the total aircraft cost made by each component (commodity or industry labor group) comprising the index. The index is thus a "cost-weighted" series.

b. A 2 1/2 percent compounded annual rate for growth of overhead ratios is assumed.

c. No adjustment is made for productivity increases.

d. Indices are developed on a Calendar Year basis.

2. Characteristics of the September 1973 Cost Research Report.

a. As with the RAND Report, aircraft inflation indices have been constructed from a weighted average of Producer Prices and Price Indexes and Employment and Earnings data selected as proxy series for their similarity to those commodities and labor categories experienced in the procurement of Army aircraft. Weighting factors are proportional to the relative physical weights or masses, rather than the relative costs (as in the RAND Report), of commodities comprising the "composite material" portion of the index. Thus, the "composite material" portion of the index represents a "weight-weighted" series.

b. Like the RAND Report, a 2½ percent annual growth in the overhead ratio is assumed.

c. No adjustment is made for productivity increases.

d. Indices are developed on a Calendar Year basis.

e. For years for which certain specified Producer Price Indexes were unavailable, data has been projected from adjacent years.

3. Characteristics of the August 1974 Research Report.

a. As before, Producer Prices and Price Indexes and Employment and Earnings data have been selected as proxy series most similar to those commodities and labor categories experienced in the procurement of Army aircraft. The indices have been constructed from a weighted average of these proxy series utilizing the weighting factors used in the September 1973 Cost Research Report. The "composite material" portion of the index represents a "weight-weighted" series.

b. Unlike RAND and the September 1973 Cost Research Report, no adjustment for overhead growth is assumed.

c. No adjustment for productivity increases is assumed.

d. Indices have been extended to FY 1974 by assuming that data for the September 1973 Cost Research Report represented December and hence the Fiscal Year midpoint, rather than the annual average, of each calendar year.

e. For years for which certain specified Producer Price Indexes were unavailable, data has been projected from adjacent years.

B. Data Sources. Data sources for this report are Producer Prices and Price Indexes (reference 8) and Employment and Earnings (reference 2). To insure that the latest revisions were incorporated into the data base, data was obtained from the Bureau of Labor Statistics Information Center, and Annual Supplements to the Producer Prices and Price Indexes. For Employment and Earnings, data for any given month was obtained from the latest available source. Data used in this report are displayed in Appendices D, E, G, and H.

C. Methodology.

1. Overhead and Productivity Adjustments. On the basis of data covering a ten year period, the RAND Report concluded that there exists a secular growth trend of 2½ percent per year in the production overhead rate. The report also concludes that there has been little, if any, improvement in productivity to counteract the observed trend in overhead growth. This conclusion appears to

be unwarranted, particularly in light of productivity gains recorded (as measured by Industrial Production Indices) for similar sectors of industry. Thus, in order not to unduly bias the results of the analysis, this report makes no adjustment for either overhead growth or improvements in productivity.

2. Revision of Weighting Factors. From a number of Cost Information Reports, the following weighting factors were developed and reported in the September 1973 Cost Research Report. For the Airframe:

(.378) Raw Material + (.622) Labor 3723,9 (3728)
= Purchased Equipment

(.582) Purchased Equipment + (.418) Raw Material
= Total Material

(.378) Total Material + (.622) Labor 3721 = Total Airframe

For the Engine:

(.599) Raw Material + (.401) Labor 3723,9 (3728)
= Purchased Equipment

(.295) Purchased Equipment + (.705) Raw Material
= Total Material

(.599) Total Material + (.401) Labor 3722 (3724)
= Total Engines

And for Avionics:

(.315) Material + (.685) Labor 3674,9 (367x) = Total Avionics

In the previously published indices, the weighting factors used to develop the material portion of the indices were made proportional to the relative physical weights of the various commodities used in the construction of the aircraft. The material portion of these indices thus represent a "weight-

weighted" series. In order to be consistent with the intended purposes of an inflation index, the methodology in this program uses index weighting factors proportional to the numerical products obtained from multiplying the relative physical commodity weights by the appropriate base year cost per pound. This yields a "cost-weighted" index giving more weight to such expensive commodities as titanium. Unfortunately, however, price per pound data are not published in Producer Prices and Price Indexes for each of the commodities used in constructing the indices. To overcome this difficulty, the per pound price is estimated from the available data of the most closely related commodities. To minimize the effect from related commodities which have relatively little economic impact, each price per pound estimate has been developed from a weighted average of available data utilizing the Bureau of Labor Statistics 1975 revised relative weights published in the 1975 Annual Supplement to Producer (Formerly Wholesale) Prices and Price Indexes. The available data then constitutes a weighted sample from which a surrogate price per pound is computed for the Producer Price series in question. See Appendix A for the Computations for the Derivation of these Revised Weighting Factors, along with their associated cost contribution per pound.

3. Construction of Indices.

a. Calendar Year 1967 has been taken as the base of these indices because this year represents the approximate midpoint of the period(1958 - 1980) for which the data supports the develop-

ment of each of the indices, including those which account for avionics. Furthermore, 1967 conforms to the base used by the Bureau of Labor Statistics for Producer Price Indexes.

b. Appendix B contains the current Producer Price Index series, Earnings series, and the associated weighting factors used in the construction of the indices published in this report. Since some of these series have been in existence for only a limited time, other closely related series have been substituted with appropriate mathematical adjustments to insure continuity of the indices. This technique is considered preferable to the synthesis of data by projection from adjacent years. Appendix C depicts the historical flow and identifies the effective dates of series conversions, for the Producer Price Index and Earnings data used in the development of the indices published in this report.

c. The term "aggregate" has been selected to indicate inflation indices applicable to the combined Airframe and Engine (aggregate Air Vehicle Excluding Avionics) and to the combined Airframe, Engine, and Avionics (Aggregate Air Vehicle Including Avionics) to avoid confusion with the term "composite" as in "composite escalation indices". Aggregate indices are based upon a standard 70-20-10 weighting (see Reference 6) of the Airframe, Engine and Avionics Indices respectively. Aggregate indices are intended for the adjustment of historical cost data for which the distribution of costs for the Airframe, Engine, and Avionics components is unavailable.

d. A new section depicting the raw material portion of

the inflation indices is published as Appendix I. It is intended for applications requiring greater accuracy. Appropriate labor indices can be obtained from the Bureau of Labor Statistics Employment and Earnings series (Reference 2) as follows:

<u>Labor Category</u>	<u>1967 SIC Code</u>	<u>1972 SIC Code</u>	<u>Industry</u>
Airframe Contractor	3721	3721	Aircraft
Airframe Subcontractor	3723,9	3728	Other aircraft part & equipment
Engine Contractor	3722	3724	Aircraft engines & engine parts
Engine Subcontractor	3723,9	3728	Other aircraft parts & equipment
Avionics	3674,9	367X	Other electronic components
Aggregate Air Vehicle Excluding Avionics	372	372	Aircraft and parts

e. The basic Computational Methodology is as follows :

(1) For Components: Airframe, Engine, and Avionics.

(a) Calendar Year indices are computed using sum of weighted calendar year labor and material indices.

(b) Fiscal Year indices are computed in a manner similar to Calendar Year, but the yearly fiscal averages are generated from the monthly data.

(c) Quarterly Indices are computed by averaging three months data from the monthly data set.

(d) Monthly indices are computed by direct calculation using monthly data. It is a weighted average of monthly figures computed using the same methodology as in computing the Calendar

Year indices.

For additional information, see Appendix B.

(2) Aircraft System Cost

The inflation indices for "Aggregate Vehicle" and "Aggregate Vehicle without Avionics" are produced by combining the three separate indices:

<u>Component</u>	<u>Relative Weight</u>
Airframe Index	70%
Engine Index	20%
Avionics Index	10%
<hr/>	
Aggregate Vehicle	100%

<u>Component</u>	<u>Relative Weight w/o Avionics</u>
Airframe Index	78%
Engine Index	22%
<hr/>	
Aggregate Vehicle without Avionics	100%

b. Reduced form equations are displayed in Appendix B, page B-3.

$$\begin{array}{rcl}
 (.7) & \vdots & (.2 + .7) = .78 \\
 (.2) & \vdots & (.2 + .7) = .22 \\
 & \vdots & \hline
 & & 1.00
 \end{array}$$

V. DESCRIPTION OF COMPUTER PROGRAM AND ASSOCIATED APPENDICES.

The Historical Inflation Program is a computer program used to generate historical inflation indices for Army aircraft and their major subsystems. Appendices D and G contain the annual data used by the program, while the monthly data, commencing July 1967, are in Appendices E and H. Producer Price Index and Earnings data in these Appendices have been arrayed into columns with the same numerical code sequence used in Appendix B. Historical inflation indices and factors are published in Appendix F. Fiscal Year, quarterly, and monthly indices have been developed from the appropriate monthly data. A section containing the raw material portion only of these indices is published as Appendix I. The labor portion of these indices may be obtained by applying the methodology described on page B-2, bottom of page, to the data contained in Appendices D and E.

VI. SENSITIVITY ANALYSIS

Many considerations are important when constructing Historical Indices for tracking purposes. These certainly include the following:

a. The nature of the items chosen to comprise the index.

(1) How typical or representative the items are.

(2) How closely the proxy items approximate the actual items, if indices for the actual items are not obtainable.

(3) The number of items used, and the detail in the analysis which produced the indices.

b. The determination of the percent contribution to cost - "Cost Drivers".

c. The weighting factors employed in the overall analysis.

A difficult problem confronting cost analysts, who must determine the validity of an historical index for tracking purposes, relates to aggregate labor/material weighting factors. In tracking major weapons systems, the ratio is often stated as say 40/60 - that is 40 percent material and 60 percent labor - as percent contributions to cost. Because it is difficult for analysts to determine the "correct" aggregate mix of labor and material, being external to the project, the aggregate split is certainly of interest.

The value for any index depends on three factors:

- a. The number of factors employed, and the quality and depth of the analysis.
- b. The values for each component of cost used in the construction of the index.
- c. The weights, or levels of importance, given to the factors, individually and collectively.

The objective of this sensitivity analysis is to shed some light on the way in which the aggregate labor/material split affects the index, which has been a controversial issue for some time. Using a set of recursive linear equations, the effect on the historical inflation index, for airframe resulting from varying the aggregate weighting scheme was calculated, in both raw and percentage terms. The calculations were made using a Wang system 2200 minicomputer, and a sample printout follows. The results provide evidence that the key to a successful index resides in item (1), the number of factors employed, and the quality and detail in the analysis used in preparing the index. Because wages are often tied to the Producer Price Index, or other price indices, in labor agreements, it is not surprising that aggregate weighting percentages for labor and material might not be an extremely sensitive issue. However, the calculations provide strong support

for the position that the identification of cost components and the depth and quality of detail in an analysis are of paramount importance, when developing an index to be used in controlling the cost of a major weapon system.

----- EXAMPLE -----

***** S E N S I T I V I T Y A N A L Y S I S *****
 (SENSITIVITY OF AIRFRAME INDEX TO CHANGES IN GROSS WEIGHTING FACTORS)

CALENDAR YEAR 1978

GROSS MTRL	GROSS LABOR	PURE MTRL	PURE LABOR	NEW INDX	CURR INDX	PERCENT CHANGE
375	.6220	.2411	.7588	2.1471	2.1470	0.00
390	.8000	.1058	.8941	2.1659	2.1470	0.88
250	.7500	.1408	.8591	2.1611	2.1470	0.66
308	.7000	.1777	.8222	2.1559	2.1470	0.41
350	.6500	.2175	.7824	2.1504	2.1470	0.15
400	.6000	.2602	.7396	2.1444	2.1470	- 0.12
450	.5500	.3059	.6940	2.1380	2.1470	- 0.41
500	.5000	.3545	.6455	2.1312	2.1470	- 0.73
550	.4500	.4059	.5940	2.1239	2.1470	- 1.07
600	.4000	.4602	.5396	2.1162	2.1470	- 1.42
650	.3500	.5175	.4824	2.1082	2.1470	- 1.80
700	.3000	.5777	.4222	2.0998	2.1470	- 2.19
750	.2500	.6408	.3591	2.0910	2.1470	- 2.60
800	.2000	.7058	.2941	2.0817	2.1470	- 3.03

SLC 2721 = 7.700 SLC 2722.9 = 6.820 NEW MAT IND = .4920

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APPENDIX A
COMPUTATIONS FOR THE DERIVATION
OF REVISED WEIGHTING FACTORS
FOR THE HISTORICAL INFLATION PROGRAM

COMPUTATIONS FOR THE DERIVATION OF
REVISED WEIGHTING FACTORS
FOR THE HISTORICAL INFLATION PROGRAM

<u>PPI CODE</u>	<u>Commodity¹</u>	<u>1967 Price Per Pound</u>	<u>Weight²</u>	<u>Product³</u>	<u>Weighted⁴ 1967 Price Per Pound</u>
07	<u>RUBBER AND PLASTIC PRODUCTS</u>				.2376
07 11 01 01	Latex	.2642	.006	.001585	
02	No. 1 Ribbed Smoked Sheets	.1992	.009	.001793	
03	No. 2 Ribbed Smoked Sheets	.1951	.021	.004097	
04	No. 3 Amber Blanket	.1820	.021	.003822	
02 11	Butyl, Regular	.25	.012	.003	
12	Neoprene, GN Type	.41	.020	.008199	
13	Styrene Butadiene, Hot	.2224	.021	.004671	
15	Polybutadiene, Non-Staining	.2476	.009	.002228	
03 21	Whole Tire Reclaim	.113	.009	.001017	
			.128	.030412	
10 13 02 62	<u>SHEETS, C.R., CARBON</u>	.0737			.0737
10 13 02 64	<u>SHEETS, C.R., STAINLESS</u>	.5531			.5531
10 15 01 41	<u>STEEL CASTINGS</u>				
10 15 01 53	<u>CLOSED DIE FORGINGS</u>				
10 15 01 11	Ingot Molds	.0497			.0497
10 22 01 11	<u>LEAD, PIG, COMMON</u>	.14			.14
10 22 01 51	<u>MAGNESIUM, PIG INGOT</u>	.3595			.3595
10 25 01 01	<u>ALUMINUM SHEET</u>	.4185			.4185

<u>PPI CODE</u>	<u>Commodity</u> ¹	<u>1967 Price</u> <u>Per Pound</u>	<u>Weight</u> ²	<u>Product</u> ³	<u>Weighted</u> ⁴ <u>1967 Price</u> <u>Per Pound</u>
10 25 01 13	<u>ROD, SCREW, MACHINE STOCK</u>	.6315			.6315
10 25 01 17	<u>EXTRUSION, SOLID CIRCLE SIZE 4 TO 5</u>				
10 25 01 13	Rod, Screw, Machine Stock	.6315			.6315
10 25 02	<u>COPPER AND BRASS MILL SHAPES</u>				.6216
31	Cartridge Brass Strip, 70-30 Alloy	.6033	.121	.073	
32	Yellow Brass Rod (62-35-3 Alloy)	.4602	.082	.03774	
33	Yellow Brass Tube (70-30 Alloy)	.7841	.048	.03764	
55	Copper Sheet or Strip	.6924	.108	.07478	
			.359	.22316	
10 25 04 63	<u>MONEL SHEET, CR 400 ALLOY</u>	1.3752			1.3752
10 25 05	<u>TITANIUM MILL SHAPES</u> ⁵				5.2926
25	Titanium Bar, Ground, 6AL-AV	5.2926			

NOTES: 1. Capitalized and Underlined Commodity Titles indicate PPI Series actually used in the Historical Inflation Program.

2. Weight is Bureau of Labor Statistics Revised Relative Weight for the Wholesale Price Index. Source: 1975 Annual Supplement to Producer Prices and Price Indexes.

3. $\text{Product} = (1967 \text{ Price Per Pound}) \times (\text{Weight})$.

4. $\text{Weighted 1967 Price Per Pound} = \frac{\text{Product}}{\text{Weight}}$

NOTES (Continued):

5. 1967 Titanium Bar Price Per Pound computed by utilizing Titanium Sponge index as surrogate for 1967 - Dec 1970. Titanium Mill Shapes index established December 1970. Titanium Sponge index for December 1970 is 95.5.

Figures may not sum due to rounding.

COMPUTATIONS FOR THE DERIVATION OF
REVISED WEIGHTING FACTORS
FOR THE HISTORICAL INFLATION PROGRAM

PPI Code	Commodity	contrib. to weight Airframe	contrib. to weight Engine	1967 COST Per Pound	contr. to cost per lb. Airframe	contr. to cost per lb. Engine	contr. to cost weighting factors Airframe	contr. to cost weighting factors Engine
07	Rubber and Plastic Products	.17	.012	.2376	.04039	.00285	.0211	.0023
10 13 02 62	Sheets, C.R., Carbon	.055		.0737	.00405		.0021	
10 13 02 64	Sheets, C.R., Stainless		.584	.5531		.32301		.2625
10 15 01 41	Steel Castings	.22		.0497	.01093		.0057	
10 15 01 53	Closed Die Forgings		.146	.0497		.00725		.0059
10 22 01 11	Lead, Pig, Common	.01		.14	.0014		.0007	
10 22 01 51	Magnesium, Pig Ingot	.033	.077	.3595	.01186	.02768	.0062	.0225
10 25 01 01	Aluminum Sheet	.256	.021	.4185	.10715	.00879	.0560	.0071
10 25 01 13	Rod, Screw, Machine Stock	.043	.004	.6315	.02715	.00253	.0142	.0021
10 25 01 17	Extrusion, Solid Circle Size 4 to 5	.128	.01	.6315	.08083	.00632	.0422	.0051
10 25 02	Copper and Brass Mill Shapes	.049	.005	.6216	.03046	.00311	.0159	.0025
10 25 04 63	Monel Sheet, CR 400 Alloy	.011	.122	1.3752	.01513	.16777	.0079	.1364
10 25 05	Titanium Mill Shapes	.025	.019	5.2926	.13231	.10056	.0691	.0817
		1.000	1.000		.46167	.64986	.2411	.5281

NOTE: Revised Weighting Factors Proportional to Cost Contribution Per Pound.

Previous Weighting Factors expressed as a proportion of "composite material" index.

Revised Weighting Factors expressed as a proportion of the total index.

Previous Technical Report (TR 76-1) omitted nickel component (represented by Monel Sheet) from Engine index.

COMPUTATIONAL
FORMULA

$$\left[\begin{array}{c} \text{CONTRIBUTION TO WEIGHT :} \\ \text{PREVIOUS WEIGHTING FACTORS} \end{array} \right] \times \left[\begin{array}{c} 1967 \text{ COST} \\ \text{PER LB.} \end{array} \right] \times \left[\begin{array}{c} \text{ADJUSTMENT FACTOR} \\ \text{FOR} \\ \text{(RELATIVE IMPORTANCE} \\ \text{OF MATERIAL (RAW)} \\ \text{IN OVERALL INDEX)} \end{array} \right] = \begin{array}{c} \text{AIRFRAME \& ENGINE} \\ \text{WEIGHTING FACTORS} \end{array}$$

APPENDIX B
WHOLESALE PRICE INDEXES AND EARNINGS SERIES
USED IN
HISTORICAL INFLATION PROGRAM
WITH REVISED WEIGHTING FACTORS

PRODUCER PRICE INDEXES AND EARNINGS SERIES
USED IN HISTORICAL INFLATION PROGRAM AND
REVISED WEIGHTING FACTORS

<u>Var</u>	<u>PPI Code</u>	<u>Commodity</u>	<u>Airframe</u>	<u>Engine</u>	<u>Avionics</u>	<u>Remarks</u>
(1)	07	Rubber and Plastic Products	.0211	.0023		
(2)	10 13 02 62 .04	Sheets, C.R., Carbon	.0021			
(3)	10 13 02 64	Sheets, C.R., Stainless		.2625		
(4)	10 15 01 41 .05	Steel Castings	.0057			
(5)	10 15 01 53 .09	Closed Die Forgings		.0059		
(6)	10 22 01 11	Lead, Pig, Common	.0007			
(7)	10 22 01 51	Magnesium, Pig Ingot	.0062	.0225		
(8)	10 25 01 01 .02	Aluminum Sheet	.0560	.0071		
(9)	10 25 01 13	Rod, Screw, Machine Stock	.0142	.0021		
(10)	10 25 01 17 .02	Extrusion, Solid Circle Size 4 to 5	.0422	.0051		
(11)	10 25 02	Copper and Brass Mill Shapes	.0159	.0025		
(12)	10 25 04 63	Monel Sheet, CR 400 Alloy **	.0079	.1364		
(13)	10 25 05	Titanium Mill Shapes	.0691	.0817		
(14)	11 78	Electronic Components			.3150	
<u>Industry</u>						
(15)	3674,9 (367X)	Other Electronic Components			.6850	
(16)	3721	Aircraft	.6220			
(17)	3722 (3724)	Aircraft Engines and Engine Parts		.4010		
(18)	3723,9 (3728)	Other Aircraft Parts and Equipment	.1369	.0709		
			1.0000	1.0000	1.0000	1.0000

COMPUTATIONAL FORMULAS : Labor Cost Indexes

The data concerning cost of labor services is supplied by the Bureau of Labor Statistics, as hourly wage rates by Standard Industry Codes, and is reported on a regular basis in Employment and Earnings. Because the material indices are percentages, and wages are expressed in dollars/hour, labor cost must be converted to a percentage (index) before calculations can be made. The dollar to percentage conversions for the labor categories are

made as follows:

	<u>SIC Code</u>	<u>Industry</u>	<u>1967</u> <u>Hr. Wage</u>	
(15)	3674,9 *(367X)	Other Electronic Components	Current Hr. Wage	\div 2.34 X 100% = INDEX
(16)	3721	Aircraft Production Workers	Current Hr Wage	\div 3.49 X 100% = INDEX
(17)	3722 *(3724)	Aircraft Engines and Engine Parts.	Current Hr. Wage	\div 3.42 X 100% = INDEX
(18)	3723,9 *(3728)	Other Aircraft Parts and Equipment.	Current Hr. Wage	\div 3.35 X 100% = INDEX

B
U

* After Cy 78, Bracketed Code Replaces Code Directly Above It.

REDUCED FORM EQUATION

$$\begin{aligned} \underline{\text{Airframe}} = & .0211 (V-1) + .0021 (V-2) + .0057 (V-4) + .0007 (V-6) \\ & + .0062 (V-7) + .056 (V-8) + .0142 (V-9) + .0422 (V-10) \\ & + .0159 (V-11) + .0079 (V-12) + .0660 (V-13) + .622 (V-16) (100/3.49) \\ & + .1369 (V-18) (100/3.35) \end{aligned}$$

$$\begin{aligned} \underline{\text{Engine}} = & .0023 (V-1) + .2625 (V-3) + .0059 (V-5) + .0225 (V-7) \\ & + .0071 (V-8) + .0021 (V-9) + .0051 (V-10) + .0025 (V-11) \\ & + .1364 (V-12) + .0817 (V-13) + .401 (V-17) (100/3.42) \\ & + .0709 (V-18) (100/3.35) \end{aligned}$$

$$\underline{\text{Avionics}} = .3150 (V-14) + .6850 (V-15) (100/2.34)$$

Variables (V-1) thru (V-18)
are defined on page B-2

DATA/DEVELOPMENT

- (1) Calendar Year Data - As given on printout.
- (2) Monthly Data - As specified on printout.
- (3) Quarterly Data - Development from Monthly.

$$\text{Quarterly} = [(\text{Month}_{T-1}) + (\text{Month}_T) + (\text{Month}_{T+1})] / 3$$

- (4) Fiscal Year Data - Developed using appropriate quarterly data.

$$\text{Fiscal Year Average} = \frac{Q_1 + Q_2 + Q_3 + Q_4}{4}$$

(Quarters of Fiscal Year)

Variables specified on preceding chart.

APPENDIX C

HISTORICAL FLOW OF WHOLESALE PRICE INDEXES AND
EARNINGS SERIES USED IN HISTORICAL INFLATION
PROGRAM WITH REVISED WEIGHTING FACTORS

Historical Flow of Producer Price Indexes and Earnings Series Used in Historical Inflation Program

Index	Calendar Year	PPI Code
	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	07
Rubber and Plastic Products		10
Metals and Metal Products		10 13 02 62
Steel Sheets		10 13 02 64
Stainless Steel Sheets		10 15 01 41
Steel Castings		10 15 01 53
Alloy Steel Forgings		10 22 01 11
Lead		10 22 01 51
Magnesium Ingot		10 22 01 56
Titanium Sponge		10 25 01
Aluminum Shapes		10 25 01 01
Aluminum Sheet		10 25 01 13
Aluminum Rod		10 25 01 17
Aluminum Extrusion		10 25 02
Copper and Brass Mill Shapes		10 25 04 63
Metal Sheet		10 25 05
Titanium Mill Sheets		11
Machinery and Equipment		11 7
Electrical Machinery and Equipment		11 78
Electronic Components		
Aircraft and Parts		3674,9 (367X)
Aircraft		372
Aircraft Engines		3721
Other Aircraft		3722 (3724)
		3723,9 (3728)

APPENDIX D

ANNUAL DATA FOR THE HISTORICAL INFLATION PROGRAM FOR U. S.
ARMY ROTARY WING AIRCRAFT

1 2 3

ANNUAL CALENDAR YEAR

LABOR RATE DATA

(15) (16) (17) (18)

BEFORE '58

THREE
INPUTS
ONLY

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
4	70.0	54.9	1.372	93.20	53.20	107.00	107.00	107.00	107.00	107.00	74.10	70.50	149.30	99.90
5	70.0	62.0	1.407	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
6	70.0	63.0	1.407	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
50	70.0	66.5	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
51	70.0	67.4	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
52	70.0	68.3	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
53	70.0	69.2	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
54	70.0	70.1	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
55	70.0	71.0	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
56	70.0	71.9	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
57	70.0	72.8	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
58	70.0	73.7	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
59	70.0	74.6	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
60	70.0	75.5	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
61	70.0	76.4	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
62	70.0	77.3	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
63	70.0	78.2	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
64	70.0	79.1	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
65	70.0	80.0	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
66	70.0	80.9	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
67	70.0	81.8	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
68	70.0	82.7	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
69	70.0	83.6	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
70	70.0	84.5	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
71	70.0	85.4	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
72	70.0	86.3	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
73	70.0	87.2	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
74	70.0	88.1	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
75	70.0	89.0	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
76	70.0	89.9	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
77	70.0	90.8	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50
78	70.0	91.7	1.437	95.40	55.40	107.00	107.00	107.00	107.00	107.00	74.10	70.50	122.40	99.50

MATERIAL COST DATA

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)

APPENDIX E

MONTHLY DATA FOR THE HISTORICAL INFLATION PROGRAM :

LABOR RATES

MONTHLY DATA FOR

MATERIALS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	LABOR			18	
															15	16	17		
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
6/JUL	98.60	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.80	2.36	3.46	3.41	3.33 68
6/AUG	100.00	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.70	2.35	3.51	3.45	3.36 68
6/SEP	101.50	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.50	2.35	3.52	3.48	3.38 68
6/OCT	101.50	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.10	100.00	99.40	2.37	3.54	3.52	3.39 68
6/NOV	102.40	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.10	2.38	3.58	3.49	3.42 68
6/DEC	102.40	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.90	2.41	3.61	3.56	3.46 68
6/JAN	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.70	2.43	3.61	3.56	3.46 68
6/FEB	102.50	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.40	2.46	3.58	3.59	3.47 68
6/MAR	102.60	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.10	2.46	3.58	3.58	3.48 68
6/APR	102.60	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.44	3.55	3.52	3.45 68
6/MAY	102.70	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.50	2.47	3.58	3.61	3.49 68
6/JUN	103.00	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.10	2.49	3.58	3.63	3.54 68
6/JUL	103.50	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.00	2.49	3.57	3.68	3.55 69
6/AUG	104.00	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.00	2.51	3.63	3.67	3.55 69
6/SEP	104.00	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.00	2.52	3.69	3.78	3.56 69
6/OCT	104.20	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.53	3.79	3.78	3.57 69
6/NOV	104.40	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.10	2.55	3.80	3.78	3.61 69
6/DEC	104.40	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.56	3.81	3.80	3.65 69
6/JAN	105.20	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	98.90	2.56	3.86	3.80	3.68 69
6/FEB	105.20	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.59	3.86	3.80	3.67 69
6/MAR	104.10	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.58	3.85	3.80	3.68 69
6/APR	104.40	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.57	3.86	3.80	3.68 69
6/MAY	104.20	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.60	3.84	3.80	3.74 69
6/JUN	105.70	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.61	3.84	3.88	3.76 69
6/JUL	105.70	107.20	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.62	3.83	3.87	3.78 70
6/AUG	106.10	112.90	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	99.20	2.63	3.92	3.89	3.79 70
6/SEP	105.80	112.90	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.65	3.89	3.92	3.79 70
6/OCT	106.50	112.90	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.64	3.98	3.94	3.84 70
6/NOV	107.50	112.90	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.65	4.05	3.94	3.86 70
6/DEC	107.50	112.90	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.68	4.07	4.04	3.91 70
6/JAN	107.50	107.50	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.70	4.09	4.01	3.89 70
6/FEB	107.70	113.10	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.71	4.09	4.01	3.90 70
6/MAR	107.60	113.10	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.73	4.09	4.03	3.93 70
6/APR	107.50	113.10	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.74	4.10	4.03	3.94 70
6/MAY	107.20	113.10	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.77	4.11	4.06	3.95 70
6/JUN	107.10	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.79	4.11	4.09	3.98 70
6/JUL	108.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.81	4.12	4.11	4.00 71
6/AUG	109.20	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.82	4.22	4.14	4.02 71
6/SEP	109.20	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.83	4.27	4.13	4.04 71
6/OCT	109.10	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.84	4.27	4.17	4.07 71
6/NOV	109.40	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.86	4.34	4.19	4.09 71
6/DEC	109.20	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.89	4.33	4.29	4.15 71
6/JAN	109.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.90	4.32	4.28	4.11 71
6/FEB	109.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.89	4.31	4.31	4.11 71
6/MAR	109.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.90	4.32	4.31	4.08 71
6/APR	109.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.91	4.32	4.30	4.07 71
6/MAY	109.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.92	4.37	4.34	4.13 71
6/JUN	109.50	119.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.93	4.34	4.35	4.15 71
6/JUL	109.40	127.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	103.40	95.50	2.92	4.33	4.37	4.16 72
6/AUG	109.40	127.40	103.40	103.40	103.40	103.40													

MATERIALS

LABOR RATES

[illegible]

MONTHLY DATA FOR

MATERIALS

LABOR RATES

CITY		1	2	3	4	5	6	7	FACILITIES										LABOR									
OFFICE NUMBER	OR STATE OF ORIGIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18									
									SUBST. TRANS.	COMM. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.	TELE. TRANS.									
10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000									
10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001	10001									
10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002	10002									
10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003	10003									
10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004	10004									
10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005	10005									
10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006	10006									
10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007	10007									
10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008	10008									
10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009									
10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010	10010									
10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011	10011									
10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012	10012									
10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013	10013									
10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014	10014									
10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015	10015									
10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016	10016									
10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017	10017									
10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018	10018									
10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019	10019									
10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020	10020									
10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021	10021									
10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022	10022									
10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023	10023									
10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024	10024									
10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025	10025									
10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026									
10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027									
10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028	10028									
10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029	10029									
10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030	10030									
10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031	10031									
10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032	10032									
10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033	10033									
10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034									
10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035	10035									
10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036	10036									
10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037	10037									
10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038	10038									
10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039	10039									
10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040									
10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041	10041									
10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042	10042									
10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043	10043									
10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044	10044									
10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045	10045									
10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046	10046									
10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047	10047									
10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048	10048									
10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049	10049									
10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050	10050									
10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051	10051									
10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052	10052									
10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053	10053									
10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054	10054									
10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055	10055									
10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056	10056									
10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057	10057									
10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058	10058										

MATERIALS

[illegible]

APPENDIX F

HISTORICAL INFLATION INDICES :

F 1

HISTORICAL INFLATION 1942-1976 PRICES

AGGREGATE AIR VEHICLE EXCLUDING AVIONICS

INDEX CY67=	FACTOR FY80=
100.0	1.0000
---	---
49.1	5.3824
54.2	4.6713
55.9	4.7297
58.9	4.4864
64.9	4.0734
67.0	3.9457
69.0	3.7875
71.0	3.6689
75.6	3.4971
80.4	3.2861
82.7	3.1957

AIRFRAME PRODUCTION

INDEX CY67=	FACTOR FY80=
100.0	1.0000
---	---
47.3	4.7300
52.1	4.4094
53.0	4.3100
56.8	4.1042
62.4	3.7173
64.7	3.6377
67.5	3.5000
69.4	3.4337
73.1	3.2421
77.6	3.0198
79.9	2.9451

ENGINE PRODUCTION

INDEX CY67=	FACTOR FY80=
100.0	1.0000
---	---
47.3	4.7300
52.1	4.4094
53.0	4.3100
56.8	4.1042
62.4	3.7173
64.7	3.6377
67.5	3.5000
69.4	3.4337
73.1	3.2421
77.6	3.0198
79.9	2.9451

47
48
49
50
51
52
53
54
55
56
57

HISTORICAL INFLATION CALCULATED FROM INDICES

	AIRFRAME PRODUCTION			ENGINE PRODUCTION			AVIATICS PRODUCTION			AGGREGATE AIR VEHICLE EXCLUDING AVIONICS			AGGREGATE AIR VEHICLE INCLUDING AVIONICS		
	INDEX CY67=	FACTOR FY80=	INDEX CY67=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	INDEX CY67=	FACTOR FY80=	INDEX CY67=
61	100.0	1.0000	100.0	100.0	1.0000	100.0	100.0	1.0000	100.0	100.0	1.0000	100.0	100.0	1.0000	100.0
62	82.4	3.1735	74.2	74.2	2.6925	61.0	61.0	2.6965	85.0	85.0	3.1067	84.7	84.7	3.0673	84.7
63	83.3	3.1444	75.5	75.5	2.9084	63.0	63.0	2.6440	85.4	85.4	3.0952	85.1	85.1	3.0511	85.1
64	85.3	3.0737	76.3	76.3	2.8314	65.9	65.9	2.5751	87.6	87.6	3.0175	87.3	87.3	2.9743	87.3
65	86.0	3.0430	77.0	77.0	2.8476	67.9	67.9	2.5147	88.1	88.1	2.9980	88.1	88.1	2.9501	88.1
66	87.1	3.0002	77.9	77.9	2.6412	69.1	69.1	2.4946	89.1	89.1	2.9660	89.0	89.0	2.9193	89.0
67	88.0	2.9740	78.4	78.4	2.6852	69.0	69.0	2.4709	89.5	89.5	2.9535	89.4	89.4	2.9055	89.4
68	89.2	2.9331	79.5	79.5	2.9306	71.1	71.1	2.4124	89.9	89.9	2.9394	90.0	90.0	2.8860	90.0
69	92.3	2.8554	82.7	82.7	2.9377	72.3	72.3	2.3743	92.4	92.4	2.8590	92.4	92.4	2.8104	92.4
70	96.5	2.7144	85.5	85.5	2.6823	75.3	75.3	2.3030	96.3	96.3	2.7448	96.2	96.2	2.7010	96.2
71	100.0	2.6137	100.0	100.0	2.7336	100.0	100.0	2.1906	100.0	100.0	2.6421	100.0	100.0	2.5977	100.0
72	103.8	2.5225	104.0	104.0	2.6039	104.1	104.1	2.1112	104.0	104.0	2.5409	104.0	104.0	2.4979	104.0
73	110.4	2.3742	111.1	111.1	2.4506	108.1	108.1	2.0334	110.6	110.6	2.3899	110.3	110.3	2.3550	110.3
74	116.9	2.2499	121.8	121.8	2.2360	115.2	115.2	1.9423	118.0	118.0	2.2398	117.5	117.5	2.2111	117.5
75	120.9	2.1659	127.6	127.6	2.1349	117.4	117.4	1.8721	122.3	122.3	2.1595	121.9	121.9	2.1316	121.9
76	128.9	2.0513	130.7	130.7	2.0834	121.0	121.0	1.8174	129.3	129.3	2.0430	126.5	126.5	2.0218	126.5
77	137.7	1.9011	139.3	139.3	2.0136	125.4	125.4	1.7534	137.2	137.2	1.9258	136.0	136.0	1.9099	136.0
78	154.0	1.7096	157.2	157.2	1.7329	134.3	134.3	1.6366	154.7	154.7	1.7079	152.7	152.7	1.7017	152.7
79	172.0	1.5225	173.1	173.1	1.5291	146.2	146.2	1.5043	173.4	173.4	1.5240	170.6	170.6	1.5223	170.6
80	164.6	1.6137	169.7	169.7	1.4362	152.7	152.7	1.4399	165.7	165.7	1.4227	162.4	162.4	1.4241	162.4
81	197.8	1.3237	207.6	207.6	1.3119	164.4	164.4	1.3374	200.0	200.0	1.3209	196.5	196.5	1.3223	196.5
82	214.7	1.2124	214.3	214.3	1.2416	183.4	183.4	1.1987	215.6	215.6	1.2245	212.5	212.5	1.2223	212.5
83	237.5	1.1024	246.6	246.6	1.1073	199.4	199.4	1.1027	239.4	239.4	1.1035	235.4	235.4	1.1036	235.4

HISTORICAL INFLATION SURVEY INDICES

			AIRCRAFT PRODUCTION			ENGINE PRODUCTION			AVIONICS PRODUCTION			AGGREGATE AIR VEHICLE EXCLUDING AVIONICS			AGGREGATE AIR VEHICLE INCLUDING AVIONICS		
			INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	
			100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	
JUL 67	67	67	99.3	2.6172	100.0	2.7391	100.0	2.7391	100.0	2.7391	99.3	2.6600	99.4	2.6122	99.4	2.6122	
AUG 67	67	67	100.3	2.6097	100.0	2.7244	100.0	2.7244	100.0	2.7244	100.3	2.6351	100.3	2.5910	100.3	2.5910	
SEP 67	67	67	100.7	2.6015	100.0	2.7134	100.0	2.7134	100.0	2.7134	100.6	2.6263	100.6	2.5834	100.6	2.5834	
OCT 67	67	67	101.1	2.5942	100.0	2.6973	100.0	2.6973	100.0	2.6973	101.4	2.6076	101.4	2.5646	101.4	2.5646	
NOV 67	67	67	102.1	2.5869	100.0	2.6802	100.0	2.6802	100.0	2.6802	102.1	2.5876	102.1	2.5472	102.1	2.5472	
DEC 67	67	67	103.0	2.5796	100.0	2.6631	100.0	2.6631	100.0	2.6631	102.9	2.5681	102.9	2.5271	102.9	2.5271	
JAN 68	68	68	103.5	2.5723	100.0	2.6460	100.0	2.6460	100.0	2.6460	102.7	2.5524	102.7	2.5297	102.7	2.5297	
FEB 68	68	68	103.8	2.5650	100.0	2.6289	100.0	2.6289	100.0	2.6289	102.8	2.5492	102.8	2.5249	102.8	2.5249	
MAR 68	68	68	104.1	2.5577	100.0	2.6118	100.0	2.6118	100.0	2.6118	102.9	2.5466	102.9	2.5246	102.9	2.5246	
APR 68	68	68	104.4	2.5504	100.0	2.5947	100.0	2.5947	100.0	2.5947	102.9	2.5439	102.9	2.5246	102.9	2.5246	
MAY 68	68	68	104.7	2.5431	100.0	2.5776	100.0	2.5776	100.0	2.5776	103.1	2.5412	103.1	2.5246	103.1	2.5246	
JUN 68	68	68	105.0	2.5358	100.0	2.5605	100.0	2.5605	100.0	2.5605	103.2	2.5385	103.2	2.5246	103.2	2.5246	
JUL 68	68	68	105.3	2.5285	100.0	2.5434	100.0	2.5434	100.0	2.5434	103.2	2.5358	103.2	2.5246	103.2	2.5246	
AUG 68	68	68	105.6	2.5212	100.0	2.5263	100.0	2.5263	100.0	2.5263	103.2	2.5331	103.2	2.5246	103.2	2.5246	
SEP 68	68	68	105.9	2.5139	100.0	2.5092	100.0	2.5092	100.0	2.5092	103.2	2.5304	103.2	2.5246	103.2	2.5246	
OCT 68	68	68	106.2	2.5066	100.0	2.4921	100.0	2.4921	100.0	2.4921	103.2	2.5277	103.2	2.5246	103.2	2.5246	
NOV 68	68	68	106.5	2.4993	100.0	2.4750	100.0	2.4750	100.0	2.4750	103.2	2.5250	103.2	2.5246	103.2	2.5246	
DEC 68	68	68	106.8	2.4920	100.0	2.4579	100.0	2.4579	100.0	2.4579	103.2	2.5223	103.2	2.5246	103.2	2.5246	
JAN 69	69	69	107.1	2.4847	100.0	2.4408	100.0	2.4408	100.0	2.4408	103.2	2.5196	103.2	2.5246	103.2	2.5246	
FEB 69	69	69	107.4	2.4774	100.0	2.4237	100.0	2.4237	100.0	2.4237	103.2	2.5169	103.2	2.5246	103.2	2.5246	
MAR 69	69	69	107.7	2.4701	100.0	2.4066	100.0	2.4066	100.0	2.4066	103.2	2.5142	103.2	2.5246	103.2	2.5246	
APR 69	69	69	108.0	2.4628	100.0	2.3895	100.0	2.3895	100.0	2.3895	103.2	2.5115	103.2	2.5246	103.2	2.5246	
MAY 69	69	69	108.3	2.4555	100.0	2.3724	100.0	2.3724	100.0	2.3724	103.2	2.5088	103.2	2.5246	103.2	2.5246	
JUN 69	69	69	108.6	2.4482	100.0	2.3553	100.0	2.3553	100.0	2.3553	103.2	2.5061	103.2	2.5246	103.2	2.5246	
JUL 69	69	69	108.9	2.4409	100.0	2.3382	100.0	2.3382	100.0	2.3382	103.2	2.5034	103.2	2.5246	103.2	2.5246	
AUG 69	69	69	109.2	2.4336	100.0	2.3211	100.0	2.3211	100.0	2.3211	103.2	2.5007	103.2	2.5246	103.2	2.5246	
SEP 69	69	69	109.5	2.4263	100.0	2.3040	100.0	2.3040	100.0	2.3040	103.2	2.4980	103.2	2.5246	103.2	2.5246	
OCT 69	69	69	109.8	2.4190	100.0	2.2869	100.0	2.2869	100.0	2.2869	103.2	2.4953	103.2	2.5246	103.2	2.5246	
NOV 69	69	69	110.1	2.4117	100.0	2.2698	100.0	2.2698	100.0	2.2698	103.2	2.4926	103.2	2.5246	103.2	2.5246	
DEC 69	69	69	110.4	2.4044	100.0	2.2527	100.0	2.2527	100.0	2.2527	103.2	2.4899	103.2	2.5246	103.2	2.5246	
JAN 70	70	70	110.7	2.3971	100.0	2.2356	100.0	2.2356	100.0	2.2356	103.2	2.4872	103.2	2.5246	103.2	2.5246	
FEB 70	70	70	111.0	2.3898	100.0	2.2185	100.0	2.2185	100.0	2.2185	103.2	2.4845	103.2	2.5246	103.2	2.5246	
MAR 70	70	70	111.3	2.3825	100.0	2.2014	100.0	2.2014	100.0	2.2014	103.2	2.4818	103.2	2.5246	103.2	2.5246	
APR 70	70	70	111.6	2.3752	100.0	2.1843	100.0	2.1843	100.0	2.1843	103.2	2.4791	103.2	2.5246	103.2	2.5246	
MAY 70	70	70	111.9	2.3679	100.0	2.1672	100.0	2.1672	100.0	2.1672	103.2	2.4764	103.2	2.5246	103.2	2.5246	
JUN 70	70	70	112.2	2.3606	100.0	2.1501	100.0	2.1501	100.0	2.1501	103.2	2.4737	103.2	2.5246	103.2	2.5246	
JUL 70	70	70	112.5	2.3533	100.0	2.1330	100.0	2.1330	100.0	2.1330	103.2	2.4710	103.2	2.5246	103.2	2.5246	
AUG 70	70	70	112.8	2.3460	100.0	2.1159	100.0	2.1159	100.0	2.1159	103.2	2.4683	103.2	2.5246	103.2	2.5246	
SEP 70	70	70	113.1	2.3387	100.0	2.0988	100.0	2.0988	100.0	2.0988	103.2	2.4656	103.2	2.5246	103.2	2.5246	
OCT 70	70	70	113.4	2.3314	100.0	2.0817	100.0	2.0817	100.0	2.0817	103.2	2.4629	103.2	2.5246	103.2	2.5246	
NOV 70	70	70	113.7	2.3241	100.0	2.0646	100.0	2.0646	100.0	2.0646	103.2	2.4602	103.2	2.5246	103.2	2.5246	
DEC 70	70	70	114.0	2.3168	100.0	2.0475	100.0	2.0475	100.0	2.0475	103.2	2.4575	103.2	2.5246	103.2	2.5246	
JAN 71	71	71	114.3	2.3095	100.0	2.0304	100.0	2.0304	100.0	2.0304	103.2	2.4548	103.2	2.5246	103.2	2.5246	
FEB 71	71	71	114.6	2.3022	100.0	2.0133	100.0	2.0133	100.0	2.0133	103.2	2.4521	103.2	2.5246	103.2	2.5246	
MAR 71	71	71	114.9	2.2949	100.0	1.9962	100.0	1.9962	100.0	1.9962	103.2	2.4494	103.2	2.5246	103.2	2.5246	
APR 71	71	71	115.2	2.2876	100.0	1.9791	100.0	1.9791	100.0	1.9791	103.2	2.4467	103.2	2.5246	103.2	2.5246	
MAY 71	71	71	115.5	2.2803	100.0	1.9620	100.0	1.9620	100.0	1.9620	103.2	2.4440	103.2	2.5246	103.2	2.5246	
JUN 71	71	71	115.8	2.2730	100.0	1.9449	100.0	1.9449	100.0	1.9449	103.2	2.4413	103.2	2.5246	103.2	2.5246	
JUL 71	71	71	116.1	2.2657	100.0	1.9278	100.0	1.9278	100.0	1.9278	103.2	2.4386	103.2	2.5246	103.2	2.5246	
AUG 71	71	71	116.4	2.2584	100.0	1.9107	100.0	1.9107	100.0	1.9107	103.2	2.4359	103.2	2.5246	103.2	2.5246	
SEP 71	71	71	116.7	2.2511	100.0	1.8936	100.0	1.8936	100.0	1.8936	103.2	2.4332	103.2	2.5246	103.2	2.5246	
OCT 71	71	71	117.0	2.2438	100.0	1.8765	100.0	1.8765	100.0	1.8765	103.2	2.4305	103.2	2.5246	103.2	2.5246	
NOV 71	71	71	117.3	2.2365	100.0	1.8594	100.0	1.8594	100.0	1.8594	103.2	2.4278	103.2	2.5246	103.2	2.5246	
DEC 71	71	71	117.6	2.2292	100.0	1.8423	100.0	1.8423	100.0	1.8423	103.2	2.4251	103.2	2.5246	103.2	2.5246	
JAN 72	72	72	117.9	2.2219	100.0	1.8252	100.0	1.8252	100.0	1.8252	103.2	2.4224	103.2	2.5246	103.2	2.5246	
FEB 72	72	72	118.2	2.2146	100.0	1.8081	100.0	1.8081	100.0	1.8081	103.2	2.4197	103.2	2.5246	103.2	2.5246	
MAR 72	72	72	118.5	2.2073	100.0	1.7910	100.0	1.7910	100.0	1.7910	103.2	2.4170	103.2	2.5246	103.2	2.5246	
APR 72	72	72	118.8	2.2000	100.0	1.7739	100.0	1.7739	100.0	1.7739	103.2	2.4143	103.2	2.5246	103.2	2.5246	
MAY 72	72	72	119.1	2.1927	100.0	1.7568	100.0	1.7568	100.0	1.7568	103.2	2.4116	103.2	2.5246	103.2	2.5246	
JUN 72	72	72	119.4	2.1854	100.0	1.7397	100.0	1.7397	100.0	1.7397	103.2	2.4089	103.2	2.5246	103.2	2.5246	
JUL 72	72	72	119.7	2.1781	100.0	1.7226	100.0	1.7226	100.0	1.7226	103.2	2.4062	103.2	2.5246	103.2	2.5246	
AUG 72	72	72	120.0	2.1708	100.0	1.7055	100.0	1.7055	100.0	1.7055	103.2	2.4035	103.2	2.5246	103.2	2.5246	
SEP 72	72	72	120.3	2.1635	100.0	1.6884	100.0	1.6884	100.0	1.6884	103.2	2.4008	103.2	2.5246	103.2	2.5246	
OCT 72	72	72	120.6	2.1562	100.0	1.6713	100.0	1.6713	100.0	1.6713	103.2	2.3981	103.2	2.5246	103.2	2.5246	
NOV 72	72	72	120.9	2.1489	100.0	1.6542	100.0	1.6542	100.0	1.6542	103.2	2.3954	103.2	2.5246	103.2	2.5246	
DEC 72	72	72	121.2	2.1416	100.0	1.6371	100.0	1.6371	100.0	1.6371	103.2	2.3927	103.2	2.5246	103.2	2.5246	
JAN 73	73	73	121.5	2.1343	100.0	1.6200	100.0	1.6									

Monthly
"FLATION" INDICES

JUL	71	72	120.0	2.1717	120.7	2.1134	110.7	1.0590	122.4	2.1586	122.0	2.1501
AUG	71	72	121.0	2.1615	120.8	2.1134	110.7	1.0635	122.9	2.1502	122.4	2.1225
SEP	71	72	121.6	2.1534	120.6	2.1134	110.7	1.0606	123.2	2.1445	122.7	2.1172
OCT	71	72	122.1	2.1499	120.5	2.1083	117.0	1.0755	123.6	2.1360	123.0	2.1123
NOV	71	72	122.7	2.1343	120.3	2.1030	117.7	1.0758	124.2	2.1270	123.5	2.1032
DEC	71	72	123.2	2.1232	120.1	2.0932	118.4	1.0857	124.8	2.1168	124.2	2.0921
JAN	72	72	122.6	2.1157	120.1	2.0932	118.4	1.0857	124.3	2.1258	123.7	2.0992
FEB	72	72	125.6	2.0649	121.0	2.0798	119.7	1.0842	126.8	2.0837	126.0	2.0610
MAR	72	72	126.4	2.0531	121.5	2.0705	120.1	1.0807	127.9	2.0663	127.1	2.0441
APR	72	72	128.9	2.0336	121.7	2.0676	119.7	1.0801	129.4	2.0413	128.5	2.0222
MAY	72	72	128.6	2.0361	122.5	2.0551	120.6	1.0824	129.5	2.0404	128.6	2.0201
JUN	72	72	128.6	2.0361	122.5	2.0551	120.6	1.0824	128.5	2.0563	127.8	2.0334
JUL	72	73	127.1	2.0305	123.0	2.0498	121.0	1.0810	127.4	2.0739	126.6	2.0487
AUG	72	73	129.6	2.0135	124.0	2.0310	121.4	1.0810	129.4	2.0420	128.6	2.0203
SEP	72	73	130.2	2.0120	124.0	2.0310	121.4	1.0810	129.9	2.0338	129.1	2.0117
OCT	72	73	131.0	1.9999	125.3	2.0168	122.1	1.0809	130.6	2.0227	129.8	2.0018
NOV	72	73	133.5	1.9910	125.7	2.0093	121.8	1.0802	132.7	1.9910	131.6	1.9738
DEC	72	73	134.9	1.9416	131.6	2.0070	123.0	1.0787	134.1	1.9697	133.0	1.9529
JAN	73	73	134.1	1.9335	130.9	2.0003	123.1	1.0762	133.4	1.9812	132.3	1.9631
FEB	73	73	134.9	1.9414	130.9	2.0003	123.1	1.0762	134.0	1.9717	132.9	1.9549
MAR	73	73	135.3	1.9352	132.1	2.0040	123.4	1.07615	134.7	1.9614	133.6	1.9448
APR	73	73	135.3	1.9358	132.7	2.0022	124.1	1.07718	134.7	1.9613	133.7	1.9437
MAY	73	73	136.3	1.9219	134.2	2.0291	124.5	1.07700	135.8	1.9454	134.7	1.9292
JUN	73	73	136.4	1.9192	135.2	2.0140	124.5	1.07654	136.2	1.9401	135.0	1.9248
JUL	73	74	136.2	1.9222	136.3	1.9389	125.1	1.07506	136.2	1.9392	135.1	1.9223
AUG	73	74	138.5	1.8901	135.5	1.9353	126.0	1.07444	138.1	1.9132	136.9	1.8977
SEP	73	74	139.1	1.8822	136.9	1.9398	126.0	1.07363	138.6	1.9058	137.4	1.8902
OCT	73	74	141.1	1.8503	137.3	1.9432	127.3	1.07275	140.2	1.8839	138.9	1.8696
NOV	73	74	141.7	1.8475	140.0	1.9444	127.9	1.07192	139.6	1.8751	139.6	1.8608
DEC	73	74	143.5	1.8251	140.9	1.9333	129.0	1.07041	142.9	1.8488	141.5	1.8386
JAN	74	74	144.5	1.8117	140.4	1.9399	128.9	1.07059	143.6	1.8395	142.2	1.8274
FEB	74	74	145.9	1.7949	141.4	1.9265	129.5	1.06974	144.9	1.8235	143.4	1.8121
MAR	74	74	147.2	1.7738	143.9	1.9235	130.4	1.06864	146.5	1.8035	144.9	1.7930
APR	74	74	148.0	1.7698	144.6	1.9235	131.0	1.06782	147.2	1.7947	145.6	1.7828
MAY	74	74	151.3	1.7339	154.1	1.8774	132.3	1.0619	151.9	1.7391	150.0	1.7323
JUN	74	74	152.3	1.7199	155.8	1.8374	134.3	1.06371	153.3	1.7239	151.4	1.7162
JUL	74	75	154.4	1.6977	160.6	1.7019	135.4	1.06235	155.7	1.6971	153.7	1.6906
AUG	74	75	157.3	1.6543	165.1	1.6393	135.4	1.06237	159.3	1.6586	156.9	1.6555
SEP	74	75	158.4	1.6533	167.0	1.6310	137.3	1.06017	160.3	1.6482	158.0	1.6441
OCT	74	75	161.3	1.6237	164.6	1.6156	137.6	1.05980	162.9	1.6218	160.4	1.6198
NOV	74	75	162.7	1.6096	169.3	1.6064	139.0	1.05723	164.2	1.6093	161.7	1.6061
DEC	74	75	163.5	1.6018	171.8	1.5858	141.4	1.05489	165.3	1.5981	163.0	1.5938
JAN	75	75	165.6	1.5816	177.3	1.5362	143.2	1.05269	168.2	1.5709	165.7	1.5678
FEB	75	75	166.0	1.5778	175.0	1.5472	144.0	1.05269	168.2	1.5707	165.8	1.5669
MAR	75	75	167.3	1.5553	176.7	1.5414	144.5	1.05220	169.4	1.5598	166.9	1.5565
APR	75	75	168.9	1.5305	177.0	1.5364	145.2	1.05138	170.7	1.5478	168.1	1.5449
MAY	75	75	170.4	1.5364	179.4	1.5264	145.2	1.05100	172.2	1.5342	169.6	1.5321
JUN	75	75	171.9	1.5233	177.5	1.5345	146.3	1.04976	173.2	1.5237	170.5	1.5232
JUL	75	76	172.6	1.5170	177.4	1.5350	147.9	1.04621	173.7	1.5210	171.1	1.5180
AUG	75	76	174.2	1.5030	173.1	1.5291	146.4	1.04666	175.1	1.5089	172.3	1.5078
SEP	75	76	175.1	1.4934	173.1	1.5205	147.6	1.04696	176.0	1.5011	173.2	1.5001
OCT	75	76	176.3	1.4856	174.5	1.5177	147.6	1.04915	177.0	1.4928	174.0	1.4927
NOV	75	76	177.5	1.4727	174.1	1.5209	147.6	1.04902	178.1	1.4835	175.0	1.4841
DEC	75	76	178.7	1.4638	181.6	1.4999	148.7	1.04785	179.3	1.4735	176.2	1.4739
JAN	76	76	179.1	1.4622	183.0	1.4722	149.0	1.04692	180.4	1.4645	177.3	1.4649
FEB	76	76	180.7	1.4493	185.3	1.4703	149.5	1.04708	181.7	1.4540	178.5	1.4555
MAR	76	76	181.8	1.4414	187.9	1.4653	149.7	1.04688	182.7	1.4468	179.4	1.4479
APR	76	76	181.2	1.4443	184.0	1.4606	149.7	1.04680	181.8	1.4533	178.6	1.4545
MAY	76	76	182.9	1.4331	185.2	1.4632	150.7	1.04591	183.6	1.4391	180.3	1.4408
JUN	76	76	183.0	1.4311	185.9	1.4576	151.7	1.04494	183.8	1.4371	180.6	1.4382

[illegible]

**AGGREGATE AIR VEHICLE AGGREGATE AIR VEHICLE
EXCLUDING AVIONICS INCLUDING AVIONICS**

AVIOLUS PRODUCTION

[illegible]

HISTORICAL INFLATION FISCAL YEAR INDICES

	AIRFRAME PRODUCTION		ENGINE PRODUCTION		AVIONICS PRODUCTION		AGGREGATE AIR VEHICLE EXCLUDING AVIONICS		AGGREGATE AIR VEHICLE INCLUDING AVIONICS	
	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=
64	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000
65	101.7	2.5734	102.5	2.5573	102.7	2.1555	101.9	2.5924	101.9	2.5487
66	107.1	2.4447	107.1	2.5425	106.2	2.0703	107.1	2.4664	107.0	2.4271
67	113.6	2.3045	117.5	2.3226	110.5	1.7682	114.4	2.3089	114.0	2.2778
68	119.5	2.1920	124.5	2.1676	116.4	1.6691	120.6	2.1910	120.2	2.1618
69	124.4	2.1057	130.0	2.0945	116.7	1.6498	125.6	2.1031	124.9	2.0790
70	133.2	1.9659	131.1	2.0774	122.3	1.7900	132.7	1.9904	131.8	1.9717
71	144.1	1.6171	142.3	1.9147	129.0	1.7039	143.7	1.8386	142.2	1.8264
72	164.0	1.5970	172.1	1.5822	141.4	1.5549	165.8	1.5936	163.4	1.5902
73	178.5	1.4662	182.3	1.4938	148.9	1.4763	179.4	1.4724	176.4	1.4727
74	186.1	1.4075	182.0	1.4190	153.2	1.4551	187.4	1.4101	184.0	1.4122
75	194.7	1.3449	205.1	1.3411	161.2	1.3637	196.6	1.3440	193.0	1.3456
76	208.9	1.2535	215.3	1.2592	179.5	1.2251	210.6	1.2548	207.4	1.2522
77	230.5	1.1364	235.6	1.1514	194.4	1.1308	231.8	1.1396	228.1	1.1390
78	261.9	1.0000	272.4	1.0000	219.9	1.0000	264.2	1.0000	259.8	1.0000

APPENDIX G

ANNUAL DATA FOR THE HISTORICAL INFLATION PROGRAM - -
RAW MATERIAL PORTION ONLY

1 2 3 ANNUAL CALENDAR YEAR DATA

MATERIALS ONLY

LABOR RATE DATA

(15) (16) (17) (18)

47	70.5	54.5	0.0	93.20	93.20	100.00	107.60	107.60	137.60	74.10	70.50	149.30	99.90
48	72.0	56.5	3.0	95.40	95.40	100.00	106.00	106.00	106.00	80.60	70.50	122.40	99.50
49	70.5	51.0	0.0	95.00	95.00	100.00	110.50	110.50	110.50	61.70	87.20	117.90	98.20
50	65.5	56.5	6.0	97.00	97.00	100.00	111.50	111.50	111.50	75.00	89.40	108.10	98.20
51	105.4	73.6	0.0	97.00	97.00	100.00	108.70	108.70	108.70	73.90	91.60	101.00	96.70
52	94.5	73.6	0.0	97.00	97.00	100.00	102.90	102.90	102.90	73.40	91.60	97.30	95.70
53	99.1	75.5	0.0	97.00	97.00	100.00	99.40	99.40	99.40	88.10	90.00	98.60	95.10
54	90.4	76.9	0.0	97.00	97.00	100.00	98.50	98.50	98.50	99.00	94.20	100.00	97.70
55	102.4	82.1	0.0	97.00	97.00	100.00	101.40	101.40	101.40	100.00	100.00	100.00	100.00
56	104.8	89.2	0.0	97.00	97.00	100.00	102.40	102.40	102.40	107.30	105.20	99.30	99.20
57	101.4	91.0	0.0	97.00	97.00	100.00	102.40	102.40	102.40	107.30	105.20	99.30	99.20
58	105.30	93.10	125.70	93.20	93.20	100.00	107.60	107.60	137.60	74.10	70.50	149.30	99.90
59	102.90	94.70	121.50	96.40	96.40	100.00	106.00	106.00	106.00	80.60	70.50	122.40	99.50
60	103.10	94.70	120.20	95.00	95.00	100.00	110.50	110.50	110.50	61.70	87.20	117.90	98.20
61	99.20	94.70	118.60	97.00	97.00	100.00	111.50	111.50	111.50	75.00	89.40	108.10	98.20
62	96.30	94.70	115.40	97.00	97.00	100.00	108.70	108.70	108.70	73.90	91.60	101.00	96.70
63	96.80	96.50	107.00	97.00	97.00	100.00	102.90	102.90	102.90	73.40	91.60	97.30	95.70
64	95.50	94.00	94.40	97.10	97.10	100.00	99.40	99.40	99.40	88.10	90.00	98.60	95.10
65	95.90	95.00	91.40	99.00	99.00	100.00	98.50	98.50	98.50	99.00	94.20	100.00	97.70
66	97.00	98.80	91.60	99.00	99.00	100.00	101.40	101.40	101.40	100.00	100.00	100.00	100.00
67	100.00	100.00	100.00	100.00	100.00	100.00	102.40	102.40	102.40	107.30	105.20	99.30	99.20
68	103.40	104.70	103.10	105.70	105.70	100.00	102.40	102.40	102.40	107.30	105.20	99.30	99.20
69	105.30	109.50	112.50	113.40	113.40	100.00	106.70	106.70	106.70	119.20	112.20	98.00	100.70
70	100.30	110.40	130.90	119.50	119.50	100.00	110.60	110.60	110.60	130.60	132.10	95.50	101.00
71	109.10	123.40	135.00	123.30	123.30	100.00	106.70	106.70	106.70	121.40	118.60	159.70	102.90
72	109.30	133.60	126.40	129.00	129.00	100.00	104.60	104.60	104.60	124.30	140.40	107.00	103.40
73	112.40	135.30	122.10	132.20	132.20	100.00	105.20	105.20	105.20	141.70	148.20	109.20	104.40
74	136.20	167.60	157.10	161.90	161.90	100.00	136.40	136.40	136.40	150.90	173.50	132.50	111.40
75	150.20	169.30	165.30	196.00	196.00	100.00	152.40	152.40	152.40	167.00	199.90	168.80	115.50
76	154.20	205.00	168.00	215.30	215.30	100.00	175.70	175.70	175.70	163.90	241.50	171.80	115.80
77	167.60	230.00	197.10	234.40	234.40	100.00	200.80	200.80	200.80	211.50	259.10	170.20	119.50
78	174.90	255.90	197.80	257.30	257.30	100.00	235.40	235.40	235.40	231.10	263.40	173.10	126.90
79	174.30	242.40	218.00	291.90	291.90	100.00	245.20	245.20	245.20	216.30	318.40	211.40	135.80

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)

MATERIAL COST DATA

APPENDIX H

MONTHLY DATA FOR THE HISTORICAL INFLATION PROGRAM - -
RAW MATERIAL PORTION ONLY

-----LALUM-----

H 2

LAURENCE

H 3

MATERIALS ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
UNIT	NUMBER	OR	SFL	ST	CL	FOUR	LEAD	MACHS	ALUM	SC	SLK	EXTRA	CP	UNIS	MUNEL	FAMIL	ELECT
10000	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10001	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10002	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10003	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10004	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10005	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10006	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10007	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10008	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10009	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10010	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10011	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10012	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10013	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10014	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10015	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10016	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10017	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10018	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10019	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10020	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10021	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10022	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10023	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10024	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10025	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10026	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10027	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10028	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10029	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10030	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10031	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10032	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10033	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10034	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10035	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10036	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10037	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10038	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10039	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10040	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10041	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10042	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10043	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10044	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10045	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10046	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10047	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10048	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10049	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10050	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10051	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10052	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10053	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10054	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10055	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10056	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10057	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10058	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10059	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10060	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10061	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10062	152.30	197.00	162.60	214.80	193.40	135.70	242.00	157.20	147.20	169.80	149.20	241.50	171.80	114.50	0.0	0.0	0.0
10063	152.30	197.00	162.60														

MATERIALS ONLY

H 5

APPENDIX I

HISTORICAL INFLATION INDICES :

RAW MATERIAL PORTION ONLY.

HISTORICAL INFLATION
1941-1956 INDICES

RAW MATERIAL PORTION ONLY

	AIRFRAME PRODUCTION			ENGINE PRODUCTION			AGGREGATE AIR VEHICLE EXCLUDING AVIONICS		
	INDEX CY67=	FACTOR FY80=	100.0	INDEX CY67=	FACTOR FY80=	100.0	INDEX CY67=	FACTOR FY80=	100.0
47	17.0	3.6556	-----	35.2	4.0700	-----	21.3	3.8123	-----
48	19.2	3.2374	-----	41.2	3.5766	-----	24.1	3.3663	-----
49	19.3	3.2219	-----	41.5	3.5486	-----	24.2	3.3463	-----
50	20.6	3.0247	-----	43.7	3.3701	-----	25.7	3.1552	-----
51	23.1	2.6930	-----	48.7	3.0262	-----	28.8	2.8183	-----
52	22.9	2.7143	-----	48.7	3.0235	-----	28.6	2.8312	-----
53	23.4	2.6514	-----	50.3	2.9297	-----	29.4	2.7571	-----
54	23.6	2.6293	-----	50.7	2.9068	-----	29.7	2.7347	-----
55	25.4	2.4507	-----	54.1	2.7220	-----	31.8	2.5534	-----
56	27.4	2.2686	-----	58.8	2.5060	-----	34.4	2.3588	-----
57	27.9	2.2279	-----	60.0	2.4567	-----	35.0	2.3149	-----

HISTORICAL INFLATION
CALENDAR YEAR INDICES

RAW MATERIAL PORTION ONLY

CY	AIRFRAME PRODUCTION		ENGINE PRODUCTION		AVIONICS PRODUCTION		AGGREGATE AIR VEHICLE EXCLUDING AVIONICS		AGGREGATE AIR VEHICLE INCLUDING AVIONICS	
	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=
58	27.7	2.2419	53.6	2.4730	31.5	1.5123	34.8	2.3298	34.5	2.2551
59	25.8	2.4085	56.3	2.6175	31.3	1.5163	32.6	2.4889	32.5	2.3952
60	26.2	2.3736	57.9	2.5432	30.9	1.5364	33.2	2.4593	33.0	2.3549
61	25.4	2.4480	57.0	2.5851	30.9	1.5364	32.4	2.5016	32.3	2.4092
62	24.5	2.5328	55.6	2.6391	30.5	1.5623	31.5	2.5747	31.4	2.4765
63	23.7	2.6284	53.2	2.7675	30.1	1.5786	30.2	2.6829	30.2	2.5727
64	23.5	2.6405	49.6	2.9596	30.0	1.5886	29.4	2.7606	29.4	2.6414
65	23.6	2.6345	49.0	3.0046	30.0	1.5886	29.3	2.7724	29.3	2.6514
66	23.8	2.6091	49.8	2.9598	30.0	1.5463	29.6	2.7402	29.7	2.6165
67	24.1	2.5748	52.8	2.7896	31.5	1.5108	30.5	2.6599	30.6	2.5416
68	24.5	2.5372	54.3	2.7113	31.2	1.5229	31.1	2.6047	31.1	2.4962
69	25.5	2.4375	57.8	2.5483	31.7	1.5002	32.7	2.4810	32.6	2.3855
70	26.2	2.3897	65.3	2.2562	31.0	1.4958	34.9	2.3225	34.6	2.2465
71	26.2	2.3744	67.7	2.1766	32.5	1.4753	35.4	2.2904	35.1	2.2155
72	26.6	2.3389	65.9	2.2351	32.6	1.4611	35.3	2.2958	35.0	2.2183
73	27.3	2.2793	66.2	2.2260	32.9	1.4471	35.9	2.2575	35.6	2.1827
74	34.2	1.8201	82.9	1.7778	35.1	1.3561	45.0	1.8028	44.0	1.7671
75	39.1	1.5691	93.7	1.5367	36.4	1.3080	51.7	1.5684	50.2	1.5495
76	42.2	1.4717	100.6	1.4645	36.5	1.3046	55.2	1.4688	53.3	1.4576
77	45.6	1.3634	111.5	1.3214	37.6	1.2642	60.2	1.3461	58.0	1.3408
78	49.2	1.2627	113.2	1.3009	40.0	1.1905	63.5	1.2779	61.1	1.2722
79	55.6	1.1188	130.2	1.1316	42.8	1.1125	72.2	1.1240	69.2	1.1232

HISTORICAL INFORMATION - ONLY MODELS

RAW MATERIAL PORTION ONLY

AIRFRAME PRODUCTION				ENGINE PRODUCTION				AVIONICS PRODUCTION				AGGREGATE AIR VEHICLE EXCLUDING AVIONICS				AGGREGATE AIR VEHICLE INCLUDING AVIONICS			
INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR	INDEX	FACTOR
CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=	CY67=	FY80=
100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000	100.0	1.0000
JUL 67	2.5386	52.4	2.6108	31.4	1.5138	30.3	2.6739	30.4	2.5541	30.4	2.6739	30.4	2.5541	30.4	2.6739	30.4	2.5541	30.4	2.6739
AUG 67	2.5042	52.4	2.6106	31.4	1.5153	30.4	2.6711	30.5	2.5519	30.5	2.6711	30.5	2.5519	30.5	2.6711	30.5	2.5519	30.5	2.6711
SEP 67	2.5733	52.4	2.6101	31.3	1.5183	30.4	2.6671	30.5	2.5490	30.5	2.6671	30.5	2.5490	30.5	2.6671	30.5	2.5490	30.5	2.6671
OCT 67	2.5596	53.7	2.7446	31.3	1.5199	30.7	2.6375	30.8	2.5239	30.8	2.6375	30.8	2.5239	30.8	2.6375	30.8	2.5239	30.8	2.6375
NOV 67	2.5609	54.1	2.7224	31.2	1.5245	30.9	2.6237	30.9	2.5128	30.9	2.6237	30.9	2.5128	30.9	2.6237	30.9	2.5128	30.9	2.6237
DEC 67	2.5571	54.1	2.7221	31.5	1.5123	30.9	2.6212	31.0	2.5086	31.0	2.6212	31.0	2.5086	31.0	2.6212	31.0	2.5086	31.0	2.6212
JAN 68	2.5418	54.1	2.7211	31.4	1.5153	31.1	2.6112	31.1	2.5009	31.1	2.6112	31.1	2.5009	31.1	2.6112	31.1	2.5009	31.1	2.6112
FEB 68	2.5324	54.5	2.7055	31.3	1.5199	31.2	2.5996	31.2	2.4912	31.2	2.5996	31.2	2.4912	31.2	2.5996	31.2	2.4912	31.2	2.5996
MAR 68	2.5308	54.5	2.7055	31.2	1.5245	31.2	2.5985	31.2	2.4911	31.2	2.5985	31.2	2.4911	31.2	2.5985	31.2	2.4911	31.2	2.5985
APR 68	2.5329	54.4	2.7084	31.3	1.5199	31.0	2.6010	31.2	2.4925	31.2	2.6010	31.2	2.4925	31.2	2.6010	31.2	2.4925	31.2	2.6010
MAY 68	2.5578	54.4	2.7103	31.3	1.5183	31.0	2.6172	31.0	2.5062	31.0	2.6172	31.0	2.5062	31.0	2.6172	31.0	2.5062	31.0	2.6172
JUN 68	2.5370	54.4	2.7092	31.2	1.5245	31.1	2.6038	31.1	2.4986	31.1	2.6038	31.1	2.4986	31.1	2.6038	31.1	2.4986	31.1	2.6038
JUL 68	2.5224	54.4	2.7085	31.2	1.5260	31.3	2.5944	31.3	2.4877	31.3	2.5944	31.3	2.4877	31.3	2.5944	31.3	2.4877	31.3	2.5944
AUG 68	2.5222	54.6	2.6967	31.2	1.5260	31.3	2.5899	31.3	2.4839	31.3	2.5899	31.3	2.4839	31.3	2.5899	31.3	2.4839	31.3	2.5899
SEP 68	2.5433	54.4	2.7086	31.2	1.5260	31.1	2.6076	31.1	2.4992	31.1	2.6076	31.1	2.4992	31.1	2.6076	31.1	2.4992	31.1	2.6076
OCT 68	2.5422	54.4	2.7086	31.2	1.5260	31.1	2.6069	31.1	2.4986	31.1	2.6069	31.1	2.4986	31.1	2.6069	31.1	2.4986	31.1	2.6069
NOV 68	2.5389	54.1	2.7220	31.2	1.5245	31.1	2.6098	31.1	2.5008	31.1	2.6098	31.1	2.5008	31.1	2.6098	31.1	2.5008	31.1	2.6098
DEC 68	2.5360	54.1	2.7215	31.2	1.5245	31.1	2.6078	31.1	2.4991	31.1	2.6078	31.1	2.4991	31.1	2.6078	31.1	2.4991	31.1	2.6078
JAN 69	2.5224	55.7	2.6457	31.2	1.5276	31.5	2.5708	31.5	2.4676	31.5	2.5708	31.5	2.4676	31.5	2.5708	31.5	2.4676	31.5	2.5708
FEB 69	2.4732	55.7	2.6428	31.6	1.5077	31.9	2.5390	31.9	2.4370	31.9	2.5390	31.9	2.4370	31.9	2.5390	31.9	2.4370	31.9	2.5390
MAR 69	2.4626	55.6	2.6422	31.6	1.5047	32.0	2.5321	32.0	2.4305	32.0	2.5321	32.0	2.4305	32.0	2.5321	32.0	2.4305	32.0	2.5321
APR 69	2.4469	56.0	2.6312	31.7	1.5017	32.3	2.5181	32.2	2.4179	32.2	2.5181	32.2	2.4179	32.2	2.5181	32.2	2.4179	32.2	2.5181
MAY 69	2.4356	56.1	2.6280	31.7	1.5017	32.3	2.5098	32.3	2.4108	32.3	2.5098	32.3	2.4108	32.3	2.5098	32.3	2.4108	32.3	2.5098
JUN 69	2.4334	57.2	2.5767	31.7	1.5017	32.6	2.4893	32.6	2.3819	32.6	2.4893	32.6	2.3819	32.6	2.4893	32.6	2.3819	32.6	2.4893
JUL 69	2.4275	57.2	2.5761	31.7	1.5032	32.5	2.4854	32.5	2.3798	32.5	2.4854	32.5	2.3798	32.5	2.4854	32.5	2.3798	32.5	2.4854
AUG 69	2.4138	57.2	2.5753	31.7	1.5017	32.6	2.4765	32.6	2.3619	32.6	2.4765	32.6	2.3619	32.6	2.4765	32.6	2.3619	32.6	2.4765
SEP 69	2.4311	56.9	2.5864	31.9	1.4928	32.5	2.4922	32.5	2.3941	32.5	2.4922	32.5	2.3941	32.5	2.4922	32.5	2.3941	32.5	2.4922
OCT 69	2.4211	61.2	2.4079	31.9	1.4899	33.6	2.4158	33.4	2.3231	33.4	2.4158	33.4	2.3231	33.4	2.4158	33.4	2.3231	33.4	2.4158
NOV 69	2.4094	63.8	2.3106	31.9	1.4899	34.5	2.3537	34.2	2.2730	34.2	2.3537	34.2	2.2730	34.2	2.3537	34.2	2.2730	34.2	2.3537
DEC 69	2.3770	65.1	2.2624	31.9	1.4899	34.8	2.3294	34.5	2.2517	34.5	2.3294	34.5	2.2517	34.5	2.3294	34.5	2.2517	34.5	2.3294
JAN 70	2.3771	65.1	2.2625	31.6	1.5077	34.8	2.3295	34.5	2.2543	34.5	2.3295	34.5	2.2543	34.5	2.3295	34.5	2.2543	34.5	2.3295
FEB 70	2.3817	65.1	2.2627	31.5	1.5077	34.8	2.3322	34.5	2.2566	34.5	2.3322	34.5	2.2566	34.5	2.3322	34.5	2.2566	34.5	2.3322
MAR 70	2.3728	65.1	2.2640	31.7	1.5017	34.8	2.3276	34.5	2.2518	34.5	2.3276	34.5	2.2518	34.5	2.3276	34.5	2.2518	34.5	2.3276
APR 70	2.3615	65.1	2.2616	31.4	1.5138	35.0	2.3201	34.6	2.2469	34.6	2.3201	34.6	2.2469	34.6	2.3201	34.6	2.2469	34.6	2.3201
MAY 70	2.3598	65.2	2.2612	31.9	1.4928	35.0	2.3190	34.7	2.2430	34.7	2.3190	34.7	2.2430	34.7	2.3190	34.7	2.2430	34.7	2.3190
JUN 70	2.3613	65.2	2.2612	31.9	1.4928	35.0	2.3198	34.6	2.2437	34.6	2.3198	34.6	2.2437	34.6	2.3198	34.6	2.2437	34.6	2.3198
JUL 70	2.3612	65.2	2.2612	31.8	1.4958	35.0	2.3198	34.6	2.2441	34.6	2.3198	34.6	2.2441	34.6	2.3198	34.6	2.2441	34.6	2.3198
AUG 70	2.3702	65.4	2.2514	32.0	1.4684	34.9	2.3208	34.6	2.2440	34.6	2.3208	34.6	2.2440	34.6	2.3208	34.6	2.2440	34.6	2.3208
SEP 70	2.3707	65.4	2.2515	32.0	1.4684	34.9	2.3211	34.6	2.2443	34.6	2.3211	34.6	2.2443	34.6	2.3211	34.6	2.2443	34.6	2.3211
OCT 70	2.3700	65.8	2.2501	32.1	1.4626	35.0	2.3149	34.7	2.2380	34.7	2.3149	34.7	2.2380	34.7	2.3149	34.7	2.2380	34.7	2.3149
NOV 70	2.3759	65.8	2.2582	32.1	1.4626	35.0	2.3184	34.7	2.2410	34.7	2.3184	34.7	2.2410	34.7	2.3184	34.7	2.2410	34.7	2.3184
DEC 70	2.3825	65.9	2.2567	32.4	1.4696	34.9	2.3214	34.7	2.2419	34.7	2.3214	34.7	2.2419	34.7	2.3214	34.7	2.2419	34.7	2.3214
JAN 71	2.3825	65.9	2.2567	32.4	1.4696	34.9	2.3214	34.7	2.2419	34.7	2.3214	34.7	2.2419	34.7	2.3214	34.7	2.2419	34.7	2.3214
FEB 71	2.3817	66.6	2.2512	32.7	1.4625	34.9	2.3270	34.6	2.2457	34.6	2.3270	34.6	2.2457	34.6	2.3270	34.6	2.2457	34.6	2.3270
MAR 71	2.3817	66.6	2.2512	32.7	1.4625	34.9	2.3270	34.6	2.2457	34.6	2.3270	34.6	2.2457	34.6	2.3270	34.6	2.2457	34.6	2.3270
APR 71	2.3575	66.6	2.2069	32.5	1.4653	35.1	2.3105	35.1	2.2305	35.1	2.3105	35.1	2.2305	35.1	2.3105	35.1	2.2305	35.1	2.3105

MAY	71	1	2.554	2.3529	66.6	2.2163	32.4	1.4710	35.4	2.2914	55.1	2.2155
JUN	71	71	26.4	2.3573	66.7	2.1445	32.4	1.4667	35.8	2.2665	35.4	2.1983
JUL	71	72	26.4	2.3519	66.7	2.1444	32.5	1.4653	35.8	2.2646	35.5	2.1914
AUG	71	72	26.4	2.3536	66.7	2.1443	32.5	1.4639	35.8	2.2644	35.5	2.1911
SEP	71	72	26.4	2.3563	66.6	2.1464	32.4	1.4636	35.8	2.2660	35.4	2.1939
OCT	71	72	26.4	2.3567	66.6	2.1464	32.4	1.4636	35.8	2.2670	35.4	2.1941
NOV	71	72	26.3	2.3577	66.6	2.1465	32.3	1.4725	35.7	2.2687	35.4	2.1960
DEC	71	72	26.3	2.3617	68.4	2.1549	32.3	1.4739	35.7	2.2736	35.3	2.2005
JAN	72	72	26.2	2.3658	68.4	2.1528	32.3	1.4753	35.6	2.2770	35.3	2.2037
FEB	72	72	26.5	2.3470	69.7	2.1448	32.6	1.4611	35.9	2.2610	35.5	2.1877
MAR	72	72	26.5	2.3426	69.0	2.1356	32.6	1.4631	36.0	2.2544	35.6	2.1819
APR	72	72	26.6	2.3374	69.0	2.1354	32.5	1.4639	36.0	2.2514	35.7	2.1797
MAY	72	72	26.7	2.3306	69.0	2.1343	32.6	1.4526	36.1	2.2472	35.8	2.1744
JUN	72	72	26.7	2.3326	69.4	2.2884	32.7	1.4540	35.0	2.2346	34.8	2.2336
JUL	72	73	26.6	2.3345	64.4	2.2885	32.8	1.4526	35.0	2.2357	34.8	2.2344
AUG	72	73	26.7	2.3324	63.6	2.3158	32.7	1.4568	34.9	2.2327	34.6	2.2438
SEP	72	73	26.7	2.3300	63.6	2.3157	32.5	1.4625	34.9	2.2342	34.7	2.2433
OCT	72	73	26.6	2.3372	63.6	2.3160	32.5	1.4639	34.8	2.2286	34.6	2.2473
NOV	72	73	26.6	2.3359	63.6	2.3158	32.5	1.4639	34.8	2.2278	34.6	2.2467
DEC	72	73	26.6	2.3356	63.6	2.3158	32.5	1.4625	34.8	2.2276	34.6	2.2462
JAN	73	73	26.6	2.3333	63.7	2.3134	32.6	1.4583	34.9	2.2323	34.7	2.2453
FEB	73	73	26.7	2.3307	63.7	2.3133	32.6	1.4583	34.9	2.2326	34.7	2.2422
MAR	73	73	26.9	2.3111	65.0	2.2664	32.7	1.4568	35.4	2.2928	35.1	2.2150
APR	73	73	27.0	2.3062	65.0	2.2661	32.8	1.4526	35.4	2.2898	35.2	2.2118
MAY	73	73	27.0	2.2987	66.5	2.2146	32.9	1.4471	35.8	2.2640	35.5	2.1884
JUN	73	73	27.2	2.2849	67.0	2.2003	32.9	1.4457	36.0	2.2499	35.7	2.1789
JUL	73	74	27.2	2.2865	67.0	2.2003	32.9	1.4453	36.0	2.2509	35.7	2.1765
AUG	73	74	27.2	2.2824	67.0	2.1983	32.9	1.4443	36.1	2.2477	35.8	2.1737
SEP	73	74	27.5	2.2623	67.2	2.1924	32.5	1.4443	36.3	2.2336	36.0	2.1613
OCT	73	74	27.7	2.2484	67.2	2.1917	33.0	1.4416	36.4	2.2251	36.1	2.1835
NOV	73	74	27.9	2.2350	67.4	2.1667	33.0	1.4402	36.7	2.2094	36.3	2.1894
DEC	73	74	28.4	2.1917	67.6	2.1795	33.3	1.4293	37.1	2.1868	36.7	2.1181
JAN	74	74	29.3	2.1203	68.5	2.1496	33.5	1.4226	3			

INFLATION INDICES
RAW MATERIAL PORTION ONLY

MAY	76	76	41.5	1.4969	75.9	1.4354	36.2	1.3137	54.3	1.4936	52.5	1.4614
JUN	76	76	42.1	1.4771	77.0	1.4079	36.4	1.3091	54.8	1.4802	52.9	1.4685
JUL	76	77	42.3	1.4774	75.4	1.4027	36.4	1.3091	55.0	1.4747	53.1	1.4634
AUG	76	77	42.9	1.4507	102.0	1.4442	36.4	1.3060	56.0	1.4481	54.0	1.4387
SEP	76	77	44.1	1.4105	103.2	1.4277	36.5	1.3046	57.2	1.4174	55.1	1.4100
OCT	76	77	44.1	1.4105	103.2	1.4276	36.5	1.3001	57.3	1.4162	55.2	1.4085
NOV	76	77	44.1	1.4108	103.2	1.4271	36.7	1.2979	57.2	1.4174	55.2	1.4094
DEC	76	77	44.0	1.4144	103.2	1.4273	36.7	1.2957	57.1	1.4196	55.1	1.4113
JAN	77	77	43.9	1.4156	105.5	1.3964	37.1	1.2614	57.6	1.4078	55.6	1.3993
FEB	77	77	44.0	1.4122	105.2	1.3875	37.2	1.2781	57.8	1.4021	55.8	1.3939
MAR	77	77	44.4	1.4310	109.1	1.3507	37.2	1.2781	58.6	1.3803	56.6	1.3735
APR	77	77	45.4	1.3700	109.2	1.3491	37.4	1.2717	59.6	1.3615	57.4	1.3556
MAY	77	77	45.5	1.3510	112.6	1.3063	37.4	1.2717	60.4	1.3432	58.1	1.3386
JUN	77	77	45.5	1.3577	113.5	1.2963	37.5	1.2706	60.6	1.3388	58.3	1.3344
JUL	77	77	46.3	1.3428	114.3	1.2883	37.4	1.2727	61.4	1.3203	59.0	1.3172
AUG	77	77	46.4	1.3492	114.4	1.2880	37.4	1.2717	61.5	1.3181	59.1	1.3151
SEP	77	77	46.2	1.3446	115.5	1.2975	38.0	1.2537	61.2	1.3252	58.9	1.3206
OCT	77	76	46.3	1.3430	115.6	1.2973	38.1	1.2475	61.2	1.3242	58.9	1.3192
NOV	77	78	46.6	1.3334	115.0	1.3040	38.3	1.2414	61.4	1.3214	59.1	1.3162
DEC	77	78	46.6	1.3331	113.0	1.3039	38.3	1.2434	61.4	1.3212	59.1	1.3161
JAN	78	78	46.9	1.3209	111.4	1.3230	39.2	1.2144	61.2	1.3253	59.0	1.3180
FEB	78	78	47.3	1.3143	111.5	1.3218	39.3	1.2115	61.6	1.3173	59.3	1.3103
MAR	78	78	48.2	1.2888	111.4	1.3224	39.6	1.2009	62.3	1.3022	60.0	1.2955
APR	78	78	48.5	1.2821	110.8	1.3297	39.5	1.2057	62.3	1.3009	60.1	1.2946
MAY	78	78	48.7	1.2766	111.7	1.3169	39.7	1.1990	62.7	1.2934	60.4	1.2872
JUN	78	78	48.9	1.2706	112.9	1.3046	39.9	1.1914	63.2	1.2841	60.8	1.2780
JUL	78	78	49.3	1.2614	114.4	1.2682	40.0	1.1886	63.8	1.2721	61.4	1.2666
AUG	78	78	50.1	1.2404	115.3	1.2780	40.0	1.1896	64.6	1.2553	62.1	1.2514
SEP	78	78	50.2	1.2390	115.0	1.2814	40.1	1.1877	64.6	1.2558	62.1	1.2514
OCT	78	79	50.3	1.2368	114.3	1.2885	40.5	1.1757	64.5	1.2572	62.1	1.2519
NOV	78	79	50.5	1.2308	114.4	1.2876	40.9	1.1621	64.7	1.2532	62.3	1.2472
DEC	78	79	50.9	1.2221	115.7	1.2736	40.9	1.1621	65.3	1.2424	62.8	1.2371
JAN	79	79	51.1	1.2156	117.2	1.2565	41.1	1.1586	65.8	1.2318	63.4	1.2270
FEB	79	79	51.6	1.2040	118.4	1.2422	41.3	1.1515	66.5	1.2192	64.0	1.2148
MAR	79	79	52.2	1.1902	119.7	1.2309	41.5	1.1471	67.2	1.2063	64.7	1.2025
APR	79	79	54.5	1.1410	124.0	1.1864	41.8	1.1365	69.9	1.1597	67.1	1.1583
MAY	79	79	55.1	1.1276	128.5	1.1408	41.9	1.1350	71.4	1.1353	68.5	1.1353
JUN	79	79	55.4	1.1221	131.2	1.1228	42.4	1.1232	72.3	1.1224	69.3	1.1224
JUL	79	79	56.2	1.1034	133.9	1.1004	43.0	1.1068	73.5	1.1040	70.4	1.1041
AUG	79	79	56.5	1.1005	134.7	1.0937	43.2	1.1019	73.9	1.0978	70.8	1.0980
SEP	79	79	56.5	1.1008	134.8	1.0926	43.9	1.0838	73.9	1.0975	70.9	1.0966
OCT	79	80	57.5	1.0513	135.9	1.0841	44.1	1.0799	74.9	1.0824	71.8	1.0823
NOV	79	80	58.8	1.0397	141.6	1.0368	44.4	1.0730	74.9	1.0341	75.1	1.0358
DEC	79	80	60.2	1.0325	142.1	1.0365	44.9	1.0632	78.4	1.0341	75.1	1.0358
JAN	80	80	60.9	1.0234	142.6	1.0317	45.1	1.0535	79.1	1.0249	75.8	1.0254
FEB	80	80	62.1	1.0013	155.5	0.9473	47.2	1.0078	82.9	0.9788	79.3	0.9805
MAR	80	80	62.3	0.9911	155.6	0.9455	47.6	0.9992	83.1	0.9762	79.5	0.9776
APR	80	80	63.6	0.9759	145.9	0.9194	48.3	0.9846	82.6	0.9819	79.2	0.9821
MAY	80	80	63.5	0.9772	146.9	0.9895	48.9	0.9724	82.5	0.9833	79.1	0.9827
JUN	80	80	63.8	0.9779	146.6	0.9912	49.0	0.9623	82.5	0.9832	79.2	0.9819
JUL	80	80	64.0	0.9773	146.9	0.9901	49.0	0.9566	82.9	0.9787	79.6	0.9773
AUG	80	80	64.2	0.9678	144.2	0.9873	49.7	0.9550	83.1	0.9756	79.8	0.9743
SEP	80	80	64.3	0.9665	149.3	0.9567	50.7	0.9595	83.2	0.9746	60.0	0.9724

HISTORICAL INFLATION PART IV INDICES

RAW MATERIAL PORTION ONLY

AGGREGATE AIR VEHICLE EXCLUDING AVIONICS

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Monthly Indices

RAW MATERIAL PORTFOLIO, ONLY

1	79	51.7	1.0052	11.000	1.2401	41.5	1.1524	66.5	1.2193	64.0	1.2147
2	79	55.0	1.1502	11.700	1.1500	42.0	1.1522	71.2	1.1589	68.5	1.1585
3	79	56.8	1.1100	13.400	1.0550	43.4	1.0974	73.7	1.0997	70.7	1.0996
4	79	59.2	1.1007	13.400	1.0527	44.4	1.0720	77.1	1.0515	73.8	1.0528
1	80	61.0	1.0500	15.100	0.9750	47.0	1.0152	81.7	0.9724	76.2	0.9940
2	80	63.6	1.0700	15.100	0.9700	48.0	0.9732	82.5	0.9828	79.2	0.9822
3	80	64.2	0.9507	14.900	0.9577	50.1	0.9500	83.1	0.9703	79.6	0.9746

HISTORICAL INFLATION
FISCAL YEAR INDICES
RAW MATERIAL PORTION ONLY

FY	AIRFRAME PRODUCTION			ENGINE PRODUCTION			AVIONICS PRODUCTION			AGGREGATE AIR VEHICLE EXCLUDING AVIONICS			AGGREGATE AIR VEHICLE INCLUDING AVIONICS		
	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=	FACTOR FY80=	INDEX CY67=
68	24.3	2.5558	53.6	2.7394	31.3	1.5189	30.9	2.6269	30.9	2.5146	30.9	2.5146	30.9	2.5146	30.9
69	24.9	2.4976	55.2	2.6686	31.4	1.5164	31.6	2.5639	31.6	2.4899	31.6	2.4899	31.6	2.4899	31.6
70	26.0	2.3928	62.3	2.3636	31.8	1.4980	34.1	2.3809	33.8	2.2980	33.8	2.2980	33.8	2.2980	33.8
71	26.2	2.3694	66.1	2.2283	32.7	1.4768	35.1	2.3104	34.8	2.2322	34.8	2.2322	34.8	2.2322	34.8
72	26.5	2.3501	68.3	2.1555	32.5	1.4652	35.8	2.2674	35.4	2.1939	35.4	2.1939	35.4	2.1939	35.4
73	26.8	2.3224	64.4	2.2861	32.7	1.4567	35.1	2.3076	34.9	2.2288	34.9	2.2288	34.9	2.2288	34.9
74	29.4	2.1121	70.8	2.0820	33.6	1.4183	38.6	2.0998	38.1	2.0398	38.1	2.0398	38.1	2.0398	38.1
75	37.9	1.6419	93.9	1.5682	36.4	1.3081	50.3	1.6113	48.9	1.8888	48.9	1.8888	48.9	1.8888	48.9
76	40.2	1.5452	96.8	1.5215	36.1	1.3165	52.8	1.5356	51.1	1.8221	51.1	1.8221	51.1	1.8221	51.1
77	43.1	1.4431	101.5	1.4512	36.4	1.3073	56.1	1.4464	58.1	1.8379	58.1	1.8379	58.1	1.8379	58.1
78	45.0	1.3823	109.0	1.3516	37.2	1.2785	59.2	1.3697	57.0	1.3638	57.0	1.3638	57.0	1.3638	57.0
79	48.1	1.2915	112.8	1.3059	39.3	1.2097	62.5	1.2973	60.2	1.2916	60.2	1.2916	60.2	1.2916	60.2
80	53.4	1.1641	123.5	1.1889	41.9	1.1365	69.1	1.1740	66.4	1.1716	66.4	1.1716	66.4	1.1716	66.4
	62.2	1.0000	147.3	1.0000	47.6	1.0000	81.1	1.0000	77.7	1.0000	77.7	1.0000	77.7	1.0000	77.7

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